Richardson & Boynton Co.

"PERFECT"

TRADE MARK.

HEATERS, FURNACES, RANGES.

232 & 234 Water St., New York.

Harold Nestler
Oct. 1974
$15.00

FEBRUARY 15, 1890

Richardson & Boynton Co.

FORMERLY

(RICHARDSON, BOYNTON & CO.)

Manufacturers of the Celebrated

"PERFECT"

(TRADE MARK)

Warm-Air Heating Furnaces,

Hot-Water Heaters, * Cooking Ranges,

Fire-Place Heaters, &c.

OFFICES,

232-234 WATER STREET,

NEW YORK.

Branch Office, 84 Lake Street, Chicago.

W. K. Trowbridge, A.

(1890)

SPECIAL NOTICE

In presenting to you our Illustrated Price List for 1890, we solicit a special examination of the completeness of our assortment, offering, as we do, the largest variety of **Furnaces** *for* **Hard Coal, Soft Coal,** *and* **Wood,** *ever offered in any market.*

Attention is also called to our **Fire-Place Heaters, Cooking Ranges, Laundry Stoves, etc.**

We take special care in manufacturing our goods, which bespeak for them an increased sale. From our position as Manufacturers, Wholesale and Retail Dealers, we have facilities for **practically** *testing every article before offering it to the trade.*

In addition to the large list of goods specially shown, we have a **variety** *of other patterns, and are constantly at work on forms and modifications of our Furnaces, Ranges and Heaters, to adapt them to every section of our country, and to every possible duty for the work designed.*

Plans for setting Furnaces, estimates, and information furnished upon application.

RICHARDSON & BOYNTON CO.,

MANUFACTURERS,

84 Lake Street, Chicago. **232 & 234 WATER STREET, NEW YORK.**

Established 1837.

TD CAT 1890
PAM 03R776

SUGGESTIONS TO CORRESPONDENTS.

When ordering or making inquiries concerning our Furnaces and Heaters—

Be sure to state the FUEL to be used, and whether required in PORTABLE or BRICK-SET form.

In ordering, use the size and description given in the Price List of goods required.

A diagram of the building or room to be warmed is a good help. We have blanks for this purpose.

If in Portable form, whether with or without the galvanized iron casing.

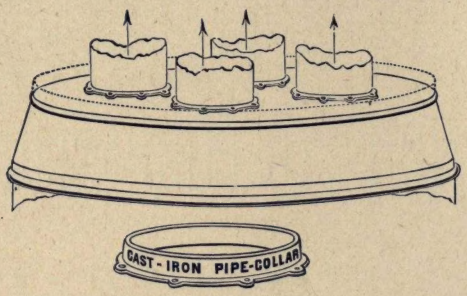
In Brick-Set form, whether with or without covering bars and Trench Plates.

As we make the same style for different kinds of fuel, please be explicit as to fuel.

Attention to these suggestions will save time and prevent mistakes.

W. K. Trowbridge, Ar

RICHARDSON & BOYNTON CO'S



CAST HOT-AIR PIPE "COLLARS."

FOR SAVING LABOR AND TIME.

The above cut shows the style of Bonnets we are now using on all our Furnaces, and we will send same with furnaces when casings are ordered by the Trade.

These Bonnets allow for pipes to be **taken off the top,** which will allow for a **quicker** and **better** flow of **Hot-Air.**

With pipe **connections** in **this** style, the **Labor,** etc., of same, will **cost Dealers less** than with side connections on **high** bonnets—where collars often are put on the corners.

Elbows should all be the **same level** on top—otherwise highest Elbows and pipe will take most Hot-Air, to the detriment of the other pipes. If **Dealers** want **high bonnets** for side bonnet connections to meet special cases, please **designate** the **same** in ordering cases.

Hot-Air Pipe Cast-Iron Collars can be furnished when ordered. Much **labor, time,** and **expense** will be saved to the Dealer by using them.

NET PRICES of Hot-Air Pipe CAST-IRON CONNECTING COLLARS.

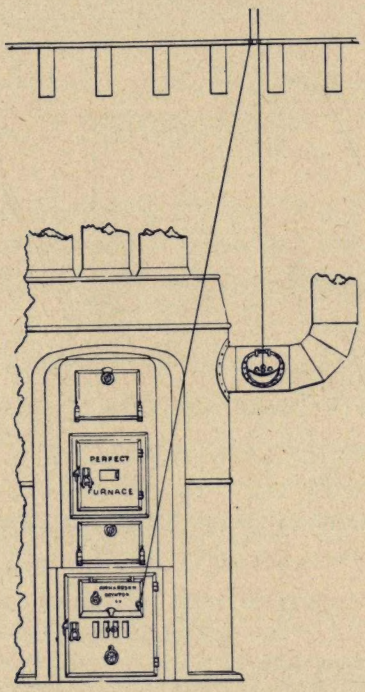
7	inch	Collar	.....	*10*	cents	net	cash	price.			
8	"	"	.....	*10*	"	"	"				
8½	"	"	.....	*10*	"	"	"				
9	"	"	.....	*10*	"	"	"				
10	"	"	.....	*12*	"	"	"				
10½	inch	Collar	.....	*12*	cents	net	cash	price.			
12½	"	"	.....	*12*	"	"	"				
14	"	"	.....	*15*	"	"	"				
16	"	"	.....	*20*	"	"	"				

These Hot-Air Pipe **Cast Connecting Collars** for Bonnets, will save **time, labor,** and **expense,** and any **tinman** can make **better** and **quicker** pipe **connections** by using same.

RICHARDSON & BOYNTON CO'S

"PERFECT"

AUTOMATIC DAMPER ATTACHMENTS,



RICHARDSON & BOYNTON CO'S FURNACE.

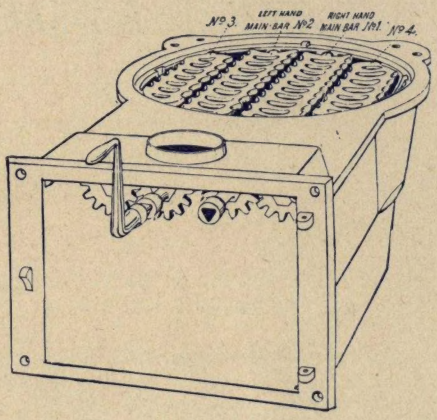
For Regulating and Controlling Drafts in Furnaces.

These attachments are sent with our furnaces **when wanted.** Drafts can be attended to from above—overcoming the necessity of going down cellar when more or less fire draft is required.

RICHARDSON & BOYNTON CO'S

"PERFECT" REVOLVING ASH AND CLINKER-FREEING GRATES.

(TRADE MARK.)



NEW "PERFECT" ASH AND CLINKER-FREEING GRATES.

THE BEST FURNACE GRATE IN EXISTENCE.

GRATES.—These new "Perfect" Grates are creating a furore among the trade. A little right and left motion of the lever absolutely clears the fire surface of all ashes and scoria, allowing for freer combustion, and enabling more heat to be obtained than ever before known. Contents of fire chamber can be dumped if desired. A child's strength is only required to operate these new and successful "Perfect" Grates. They are easily replaced, if necessary, but are constructed with especial reference to durability and standing heavy wear and tear. Moderate shaking will relieve fire pot from more ashes and clinkers than any grate heretofore made. Sifting Grate operated with lever so ashes are sifted inside the Ash Pit without dust. These Grates allow for free combustion, frees Pot from ashes and clinker absolutely, and very easily operated with half the usual labor.

RICHARDSON & BOYNTON CO'S

"PERFECT" GAS-TIGHT FURNACE,

(TRADE MARK.)

HAVING, AMONG OTHER NEW FEATURES, OUR

NEW SOLID DOUBLE UPWARD RETURN FLUE RADIATOR,

All cast in one solid piece, which compels the products of combustion after leaving the Body of Furnace, to travel from **15 to 28 feet** before entering the smoke-pipe (see other manufacturers' Furnaces, which only carry smoke from 2 to 4 feet before it enters the smoke-pipes), thus **increasing** the **radiation,** at **this point alone,** some **FOUR TIMES** over ordinary Furnaces sold by the trade.

We have **accomplished astonishing results** with the new **Perfect Gas-tight Furnace,** and we will **guarantee** them to be **Gas-tight, Substantial, Durable,** and **Perfect** in **operation,** at the same time being **Tremendous heaters.**

NO EXCUSE FOR RED-HOT FURNACES AND COLD HOUSES.

The new **"PERFECT" Gas-tight Furnace** is what the **best** and most practical of the trade have long desired, viz., a furnace being **economical** in fuel, that would **radiate** a much larger proportion of the heat in the furnace-chamber, thus allowing for easily heating the house instead of permitting the usual large proportion of waste heat going up the chimney flue, and that is **Gas-tight**, and at the same time one that **will stand the wear and tear** of constant use.

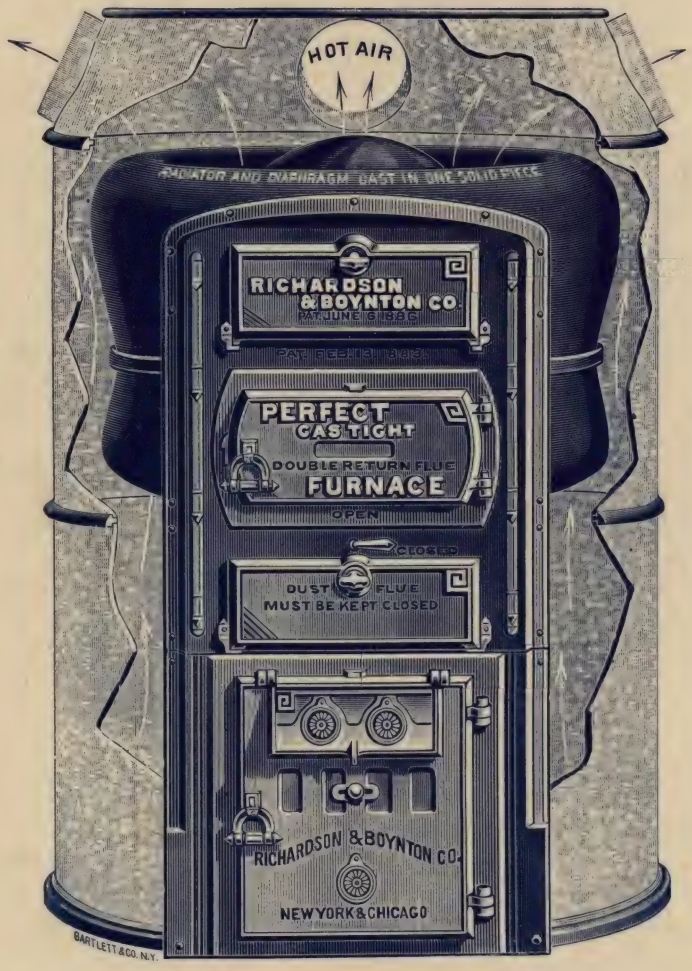
The **"PERFECTS"** have been subjected to severe tests during the winters from 1882 to 1890. Have found it efficient even under the long and trying soft coal tests, and we are satisfied after our fifty-two years of furnace experience, the "Perfect" is the most **powerful** Heating Furnace ever constructed.

Many of the most **experienced furnace men of this country** have examined thoroughly these **"Perfect" Furnaces** and have universally **pronounced** them **FAR IN ADVANCE,** for **superior merit** and **heating capacity,** over

ANY FURNACE IN EXISTENCE.

RICHARDSON & BOYNTON CO'S

"PERFECT" (TRADE MARK.) WARM AIR HEATING FURNACE.



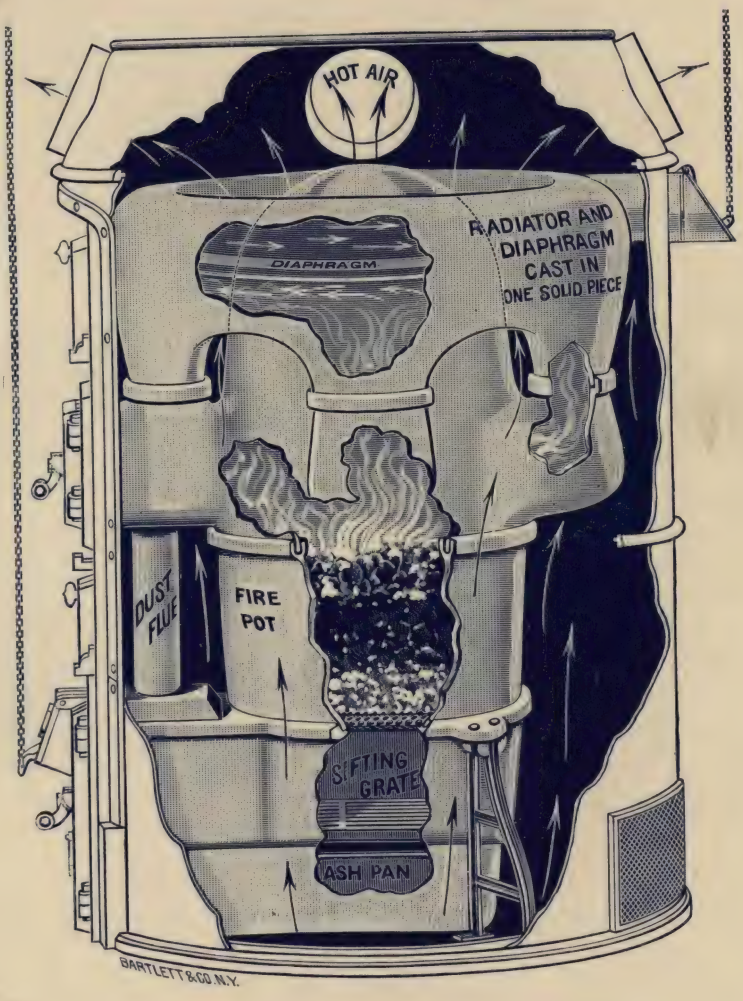
SHOWING FRONT VIEW OF THE "PERFECT" FURNACE.

Have immense heating capacity—economical in fuel—strong, durable and without bolted joints.

RICHARDSON & BOYNTON CO'S

"PERFECT" WARM AIR HEATING FURNACE.

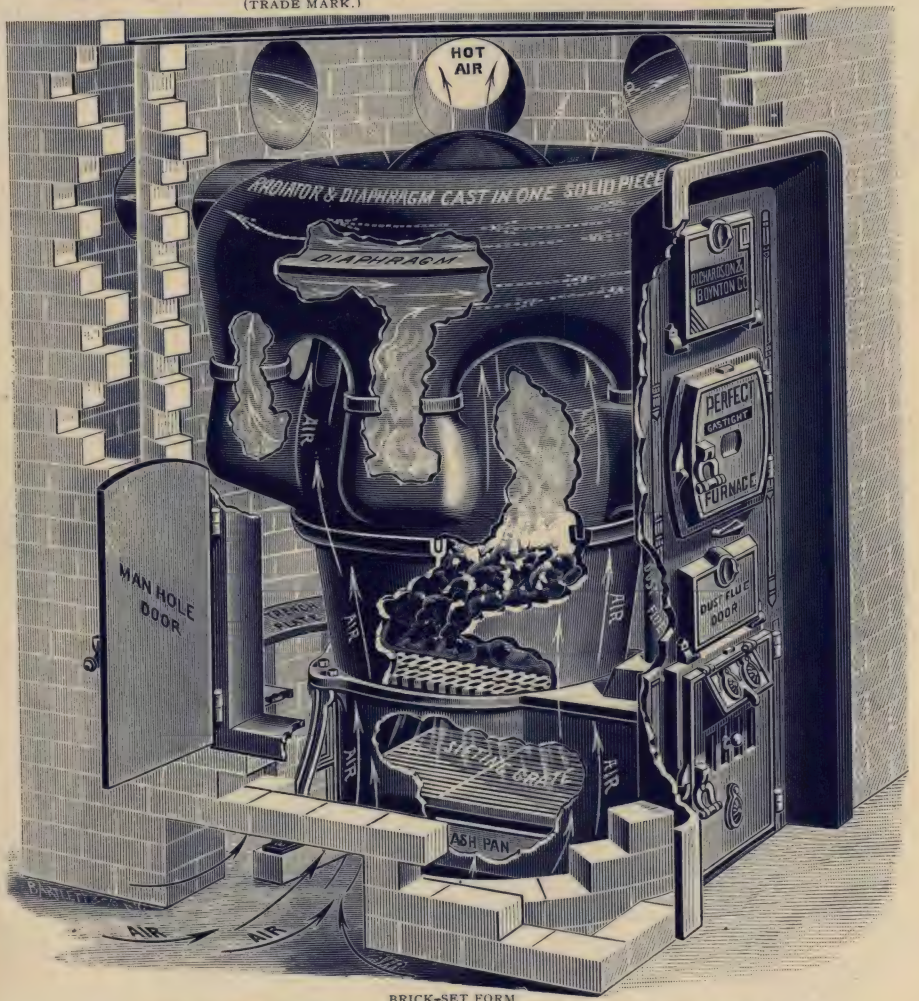
(TRADE MARK.)



SHOWING REGULATING DAMPER CONNECTIONS.

Which are supplied with our furnaces when ordered.

RICHARDSON & BOYNTON CO'S
1890 "PERFECT" GAS-TIGHT FURNACE.
(TRADE MARK.)



BRICK-SET FORM

ARE DURABLE, GAS-TIGHT AND ENORMOUSLY POWERFUL.

The **"Perfect"** Gas-tight Furnace is entirely new, having enormous heating capacity. Has new Double Return Flue Radiator, and three-flue body, with four times the usual radiating surface.—See page 6 for Grates.

SEVEN SIZES.

	Brick-Set Form	Covering Bars, per set	Trench Plates, per set
No. 130—	$181 00	$16 00	$5 50
" 140—	222 00	18 00	6 45
" 150—	272 00	21 00	7 75
" 160—	334 00	21 00	9 50
" 170—	403 00	24 00	10 00
" 180—	465 00	27 00	11 00
" 190—	543 00	28 00	13 00

	Inside Diam. of Pot	Diam. of Radiator.	Height of Castings.
No. 130	20 in.	32 in.	55 in.
" 140	22 in.	35 in.	57 in.
" 150	24 in.	38 in.	58 in.
" 160	26 in.	41 in.	59 in.
" 170	28 in.	47 in.	60 in.
" 180	31 in.	50½ in.	63 in
" 190	35 in.	55 in.	63 in.

Prices include Recess front for Brick-work, Man-hole Door, Water Pan, and Patent Regulator for Smoke Pipe.

RICHARDSON & BOYNTON CO'S
1890 "PERFECT" GAS-TIGHT FURNACE.
(TRADE MARK.)

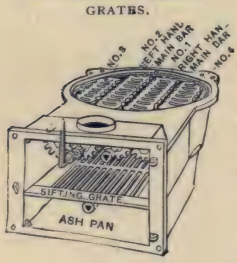
NO BOLTED JOINTS.

NO GAS.

NO DUST.

IS SOLID AND DURABLE.

CUT SHOWING "PERFECT" GRATES.



PORTABLE.

Fitted with "PERFECT" Grates, and with Cast or Steel Plate Radiators.

No **Hot Chimneys** and **Cold Houses** with these **"Perfect"** Furnaces, as they have greater durability, more heating capacity, will last longer, and use less coal than any furnace ever made. Our **New Double Return-Flue Solid Radiator,** retaining the otherwise lost heat, carries smoke four times the usual distance, and with the new **Three-Flue Body** gives four times the usual radiating available surface.

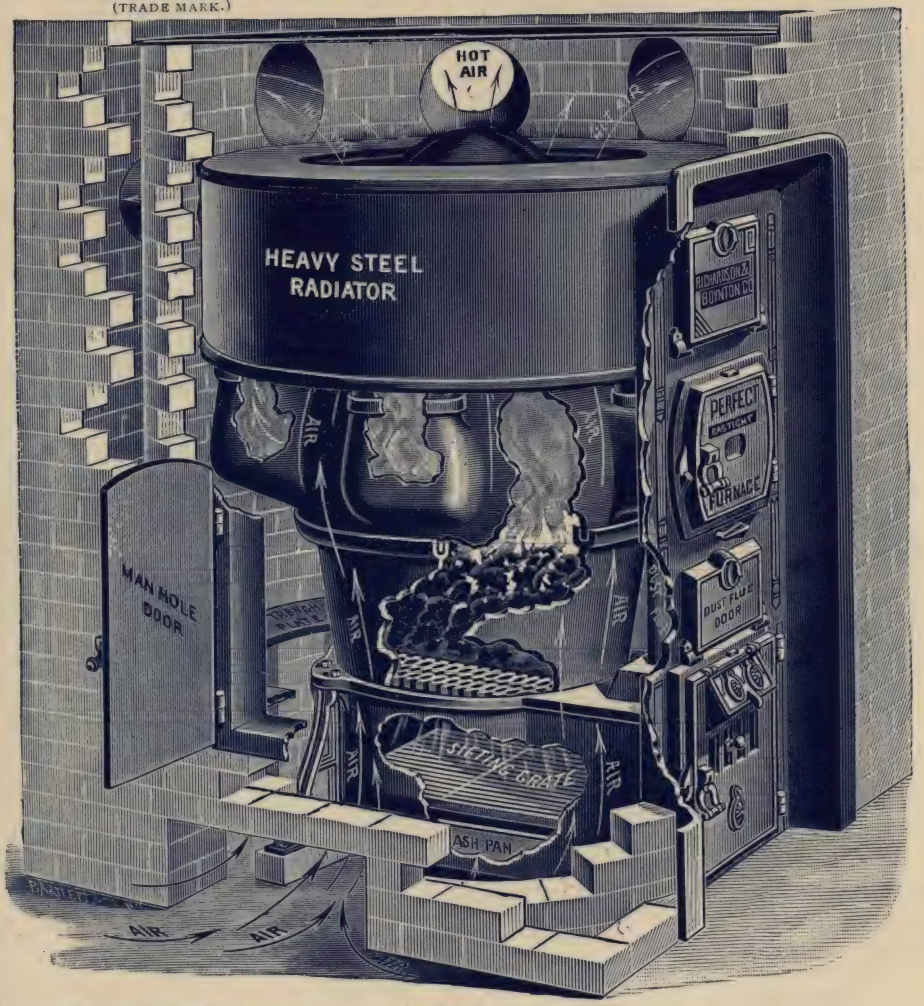
ENORMOUSLY POWERFUL, ECONOMICAL AND DURABLE.

See pages 6 and 7.

No.	*130*	-With	20	in.	Pots.	38	inch	cases,	*$205 00*	Less Cases,	*$176 00*
"	*140*	— "	22	"		41	"	"	*248 00*	"	*217 00*
"	*150*	— "	24	"		44	"	"	*302 00*	"	*266 00*
"	*160*	— "	26	"		48	"	"	*380 00*	"	*328 00*
"	*170*	— "	28	"		54	"	"	*457 00*	"	*396 00*
"	*180*	— "	31	"		60	"	"	*519 00*	"	*457 00*
"	*190*	— "	35	"		68	"	"	*621 00*	"	*543 00*

RICHARDSON & BOYNTON CO'S
"PERFECT" WARM AIR HEATING FURNACE.

(TRADE MARK.)



With Heavy Steel Radiator. BRICK-SET FORM.

Are Durable, Gas-Tight and Enormously Powerful.

The **"Perfect"** Gas-tight Furnace is entirely new, having enormous heating capacity. Has new Double Return Flue Radiator, and three-flue body, with four times the usual radiating surface. Has no superior for Power, Durability, and Attractive Features for saving fuel and labor.—See pages 9 and 10, page 9 for Grates.

SEVEN SIZES.

	Brick-set Form	Covering Bars, per set	Trench Plates, per set
No.	130—$181 00	$16 00	$5 50
"	140— 222 00	18 00	6 45
"	150— 272 00	21 00	7 75
"	160— 334 00	21 00	9 50
"	170— 403 00	24 00	10 00
"	180— 465 00	27 00	11 00
"	190— 543 00	28 00	13 00

	Inside Diam. of Pot.	Diam of Radiator.	Height of Castings.
No. 130	20 in.	32 in.	55 in.
" 140	22 in.	35 in.	57 in.
" 150	24 in.	38 in.	58 in.
" 160	26 in.	41 in.	59 in.
" 170	28 in.	47 in.	60 in.
" 180	31 in.	50½ in.	63 in.
" 190	35 in.	55 in.	63 in.

Prices include Recess front for Brick-work, Man-hole Door, Water Pan, and Patent Regulator for Smoke Pipe.

RICHARDSON & BOYNTON CO'S

"PERFECT" WARM AIR HEATING FURNACE.

(TRADE MARK.)

NO BOLTED JOINTS.

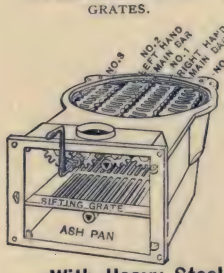
NO GAS.

NO DUST.

IS SOLID AND DURABLE.

PORTABLE.

CUT SHOWING "PERFECT" GRATES.



With Heavy Steel Radiator.

Fitted with "PERFECT" GRATES and with CAST or STEEL Plate Radiators.

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Enormously Powerful, Economical and Durable.

SEE PAGES 9 and 10.

No.	*130*–	With	20	in.	Pots.	38	inch	cases,	*$205 00*	Less Cases,	*$176 00*
"	*140*–	"	22	"		41	"	"	*248 00*	"	*217 00*
"	*150*–	"	24	"		44	"	"	*302 00*	"	*266 00*
"	*160*–	"	26	"		48	"	"	*380 00*	"	*328 00*
"	*170*–	"	28	"		54	"	"	*457 00*	"	*396 00*
"	*180*–	"	31	"		60	"	"	*519 00*	"	*457 00*
"	*190*–	"	35	"		68	"	"	*621 00*	"	*543 00*

RICHARDSON & BOYNTON CO'S

"PERFECT" GAS-TIGHT FURNACE.

(TRADE MARK.)

HAVING, AMONG OTHER NEW FEATURES, OUR

NEW SOLID DOUBLE UPWARD RETURN FLUE RADIATOR,

All cast in one solid piece, which compels the products of combustion after leaving the Body of Furnace, to travel from **15 to 28 feet** before entering the smoke-pipe (see other manufacturers' Furnaces which only carry smoke from 2 to 4 feet before it enters the smoke-pipes), thus **increasing** the **radiation,** at **this point alone,** some **FOUR TIMES** over ordinary Furnaces sold by the trade.

We have **accomplished astonishing results** with the new **Perfect Gas-tight Furnace,** and we will **guarantee** them to be **Gas-tight, Substantial, Durable,** and **Perfect** in **operation,** at the same time being **Tremendous heaters.**

NO EXCUSE FOR RED-HOT CHIMNEYS AND COLD HOUSES.

The new **"PERFECT" Gas-tight Furnace** is what the **best** and most **practical** of the trade have long desired, viz., a furnace being **economical** in fuel, that would **radiate** a much larger proportion of the heat in the furnace chamber, thus allowing for easily heating the house instead of permitting the usual large proportion of waste heat going up the chimney flue, and that is **Gas-tight,** and at the same time one that **will stand the wear and tear** of constant use.

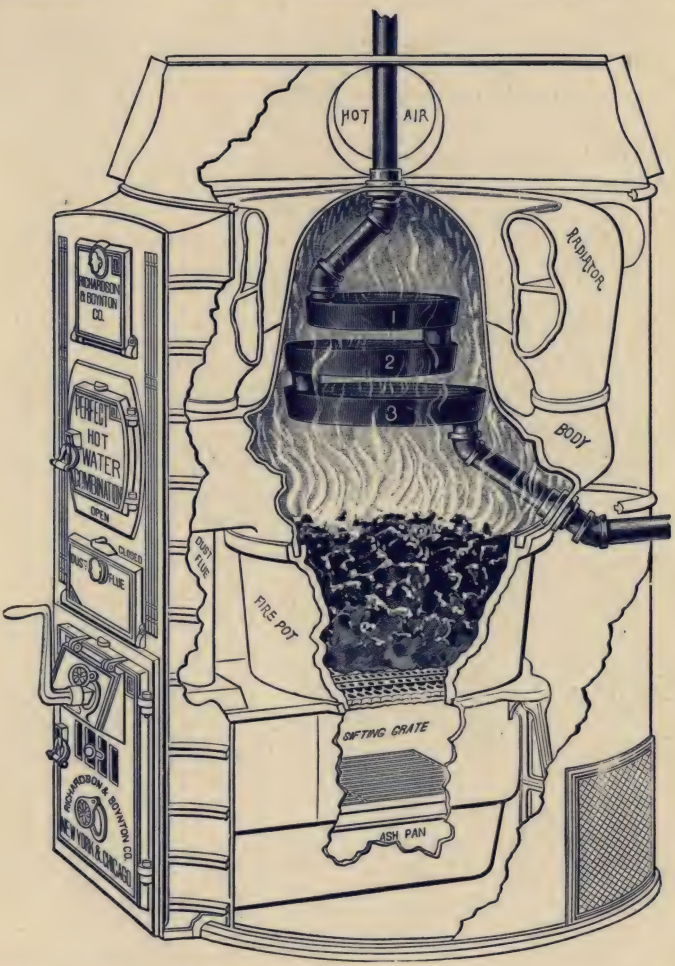
The **"Perfects"** have been subjected to severe tests during the winters from 1882 to 1890. Have found it efficient even under the long and trying soft coal tests, and we are satisfied, after our 52 years of furnace experience, the "Perfect" is the most **powerful** Heating Furnace ever constructed.

Many of the most **experienced furnace men of this country** have examined thoroughly these **"Perfect" Furnaces** and have universally **pronounced** them **FAR IN ADVANCE,** for **superior merit** and **heating capacity,**

OVER ANY FURNACE IN EXISTENCE.

RICHARDSON & BOYNTON CO'S

"PERFECT" (TRADE MARK.) WARM AIR FURNACE COMBINING A HOT WATER GENERATOR.



Providing the Means for Heating Exposed Rooms,

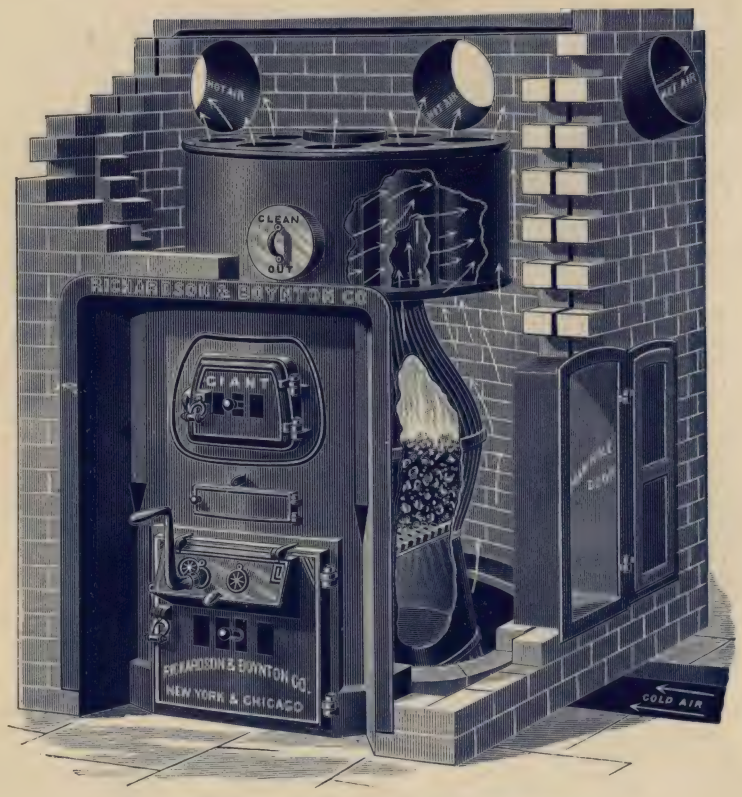
(That may be difficult to reach by warm air) by Hot Water Radiators. For prices of Furnaces, see pages 10, 11, 12 and 13.

PRICE OF GENERATORS.

No. *1* Generator,..... $
" *2* " ....
" *3* " ....

RICHARDSON & BOYNTON CO'S

1890 "GIANT" HEATING FURNACE.



With Cast or Wrought Iron Return Flue Radiators.

Quick, Powerful, Durable Heating Furnaces.

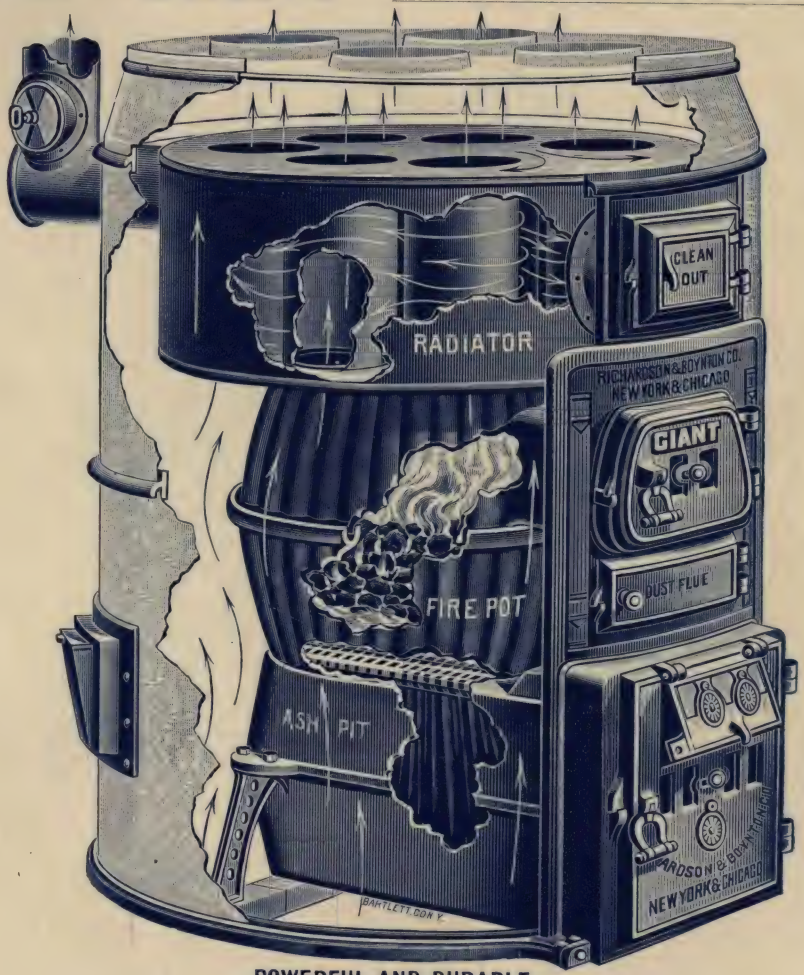
1890 "GIANT" Brick-set Furnace, with Perfect Revolving Grates, Dust Flue, Cast Fronts, etc.

			Covering Bars per set	Trench Plates per set
No. 36—With 21	inch Pots.....	$138 00	$16 75	$5 50
" 40— " 24½	"	166 00	18 50	6 50
" 44— " 26½	"	200 00	21 00	7 75
" 50— " 29	"	236 00	22 00	9 50
" 54— " 33	"	309 00	24 75	10 00
" 60— " 36	"	375 00	26 00	12 00

See page 6 for Grates used in 1890 "Giant."

RICHARDSON & BOYNTON CO'S

1890 "GIANT" FURNACE.



POWERFUL AND DURABLE.

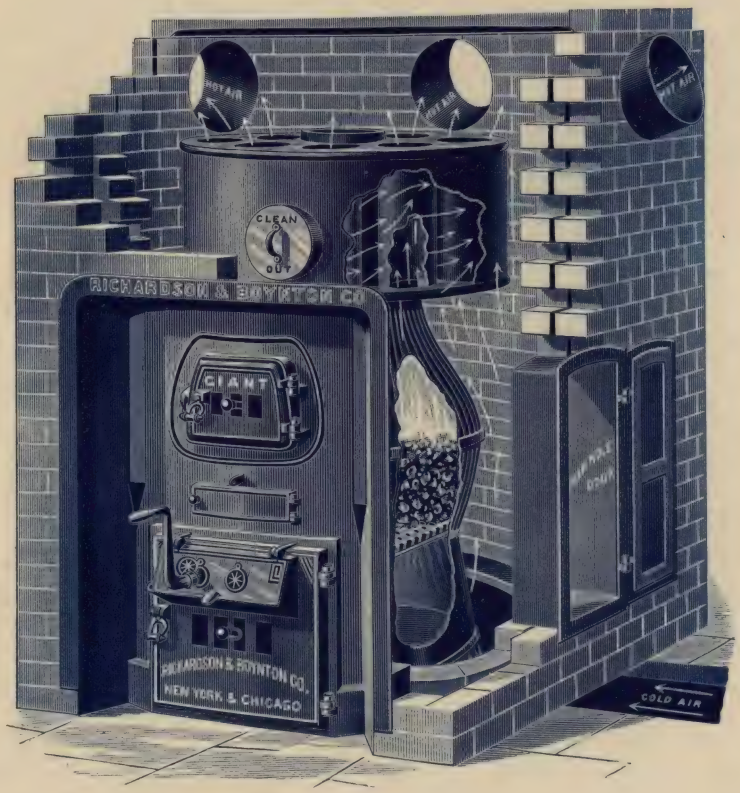
NEW 1890 "GIANT" FURNACE.

No.				With Casings.	Less Casings.	Height of Castings.
No. 24—	With	15¾	in. Pots, with 24 in. Casings,	$79 75	$60 00	4 ft. 9 inch.
" 28—	"	16½	" " 28 "	101 00	78 00	4 " 9 "
" 32—	"	18½	" " 32 "	129 00	105 00	4 " 10 "
" 36—	"	21⅛	" " 36 "	165 00	138 00	4 " 10 "
" 40—	"	24½	" " 40 "	198 00	166 00	5 " 0 "
" 44—	"	26½	" " 44 "	236 00	200 00	5 " 1 "
" 50—	"	29	" " 50 "	275 00	236 00	5 " 2 "
" 54—	"	35	" " 54 "	354 00	309 00	5 " 3 "
" 60—	"	36	" " 60 "	425 00	375 00	5 " 7 "

See page 6 for Grates used in 1890 "Giants."

RICHARDSON & BOYNTON CO'S

"GIANT" HEATING FURNACE.



With Cast or Wrought Iron Radiator.

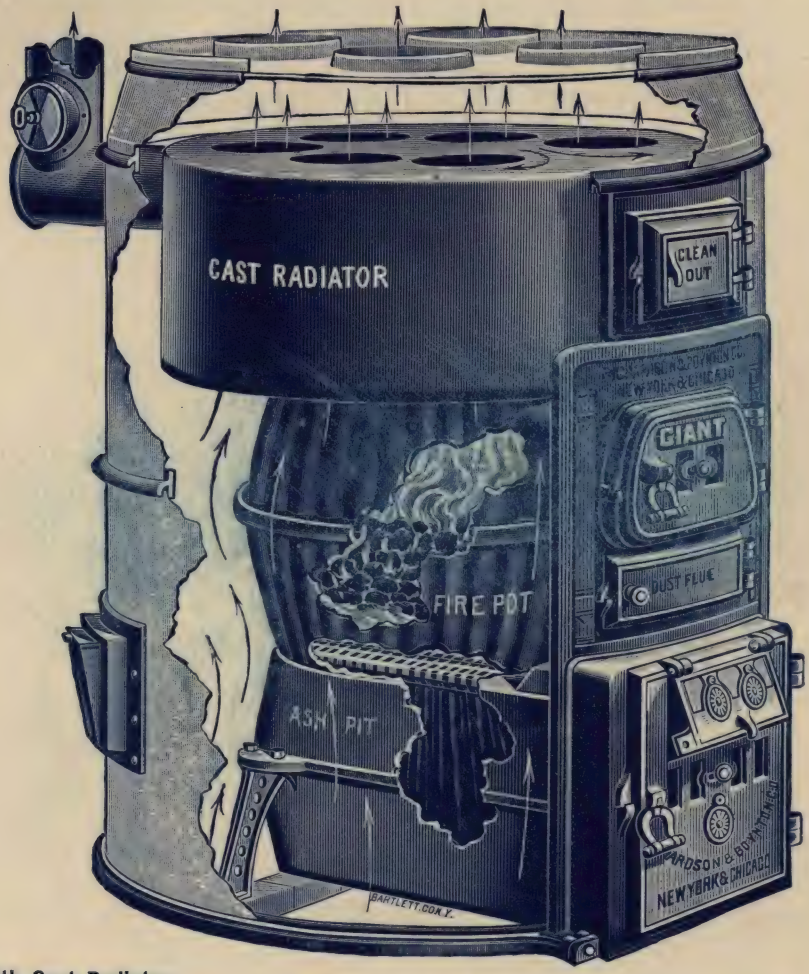
Quick, Powerful, Durable Heating Furnaces.

1890 "Giant" Brick-set Furnace, With Perfect Revolving Grates, Dust Flue, Cast Fronts, etc.

			Covering Bars per set.	Trench Plates. per set.
No. 36—With 21½ inch Pots.....	$138 00		$16 75	$5 50
" 40— " 24½ "	166 00		18 50	6 50
" 44— " 26½ "	200 00		21 00	7 75
" 50— " 29 "	236 00		22 00	9 50
" 54— " 35 "	309 00		24 75	10 00
" 60— " 36 "	375 00		20 00	12 00

See page 6 for Grates used in 1890 "Giants."

RICHARDSON & BOYNTON CO'S "GIANT" HEATING FURNACE.



With Cast Radiator.

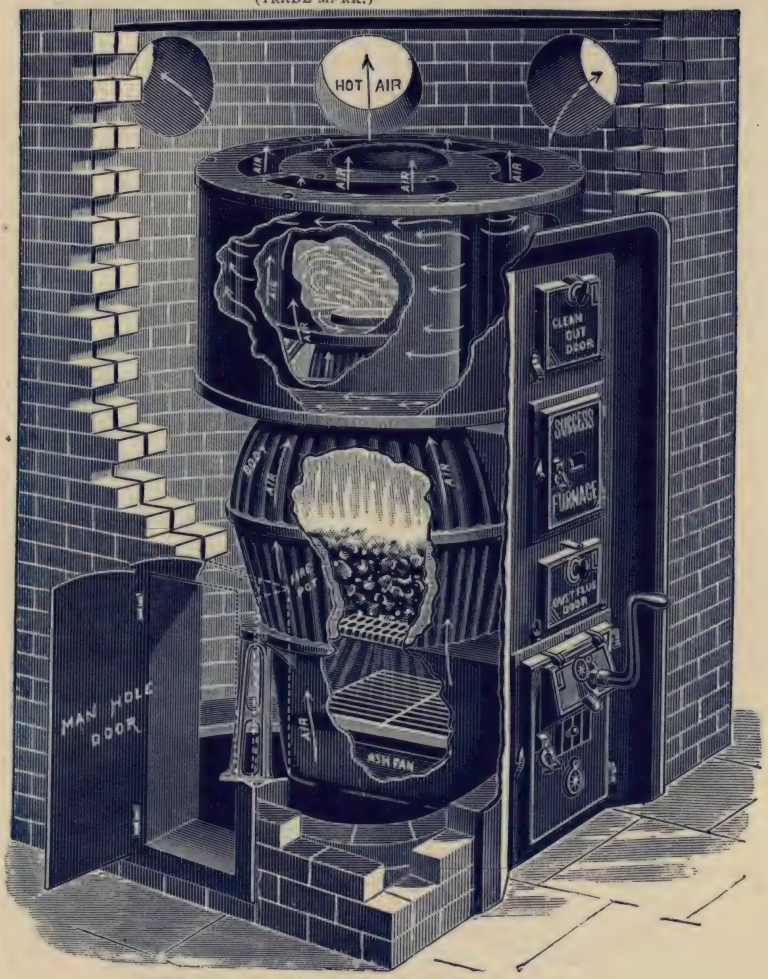
For Hard or Soft Coal.

No.						With Casings.	Less Casings.	Height of Castings
"	*24*—	With	15¼	in. Pots, with	24 in. Casings,	*$79 75*	*$60 00*	4 ft. 9 inch.
"	*28*—	"	16½	" "	28 "	*101 00*	*78 00*	4 " 9 "
"	*32*—	"	18½	" "	32 "	*129 00*	*105 00*	4 " 10 "
"	*36*—	"	21½	" "	36 "	*165 00*	*138 00*	4 " 10 "
"	*40*—	"	24½	" "	40 "	*198 00*	*166 00*	5 " 0 "
"	*44*—	"	26½	" "	44 "	*236 00*	*200 00*	5 " 1 "
"	*50*—	"	29	" "	50 "	*275 00*	*236 00*	5 " 2 "
"	*54*—	"	35	" "	54 "	*354 00*	*309 00*	5 " 3 "
"	*60*—	"	36	" "	60 "	*425 00*	*375 00*	5 " 7 "

See page 6 for grates used in 1890 "Giants."

RICHARDSON & BOYNTON CO'S
1890 "SUCCESS" FURNACE.

(TRADE MARK.)



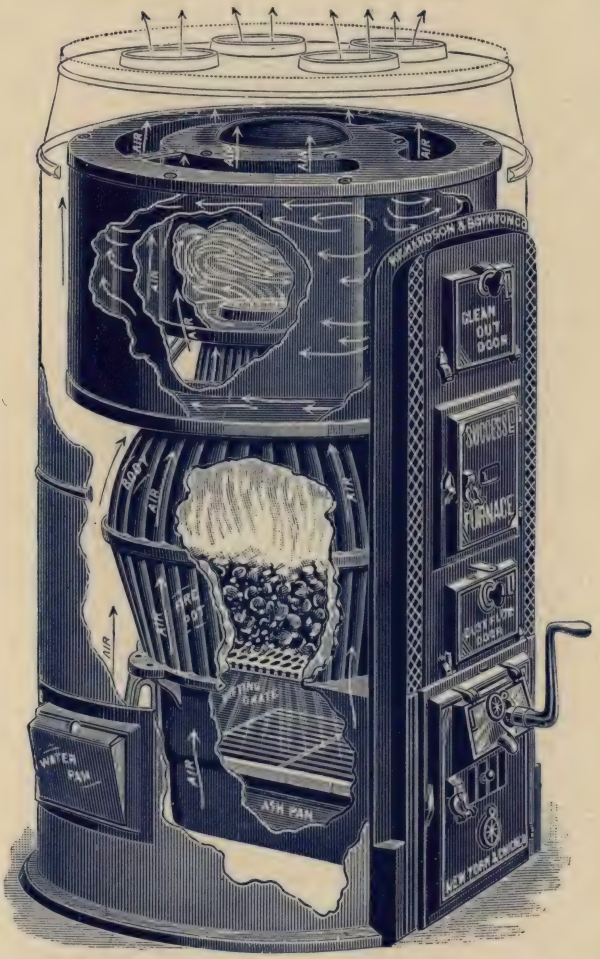
With New Double Return Flue Steel Radiator,

Which has been constructed with special reference for heating a large amount of air thoroughly and quickly, with larger flues and larger air heating spaces than have ever been heretofore made. It is absolutely gas-tight—durable—and radiator being very large in diameter, it has power beyond comparison. Air supply follows the natural laws in circulation, and with the construction of furnace so adapted for this purpose, the whole of the three surfaces of Radiator, as well as Body and Pot allow for heating thoroughly a very large quantity of air with very moderate quantity of fuel.

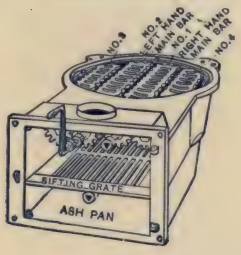
	Diam of Pots.	Diam. of Radiator.		Height of Castings.	Covering Bars, per set.	Trench Plates, per set.
No. 39—	With 23½ in.	34 in.	$181 00	4 ft. 10½ in.	$16 00	$5 50
" 42—	" 26 "	37 "	222 00	4 " 10½ "	18 00	6 50
" 45—	" 28 "	39 "	264 00	5 "	21 00	8 00
" 49—	" 31 "	43 "	317 00	5 " 1½ in.	22 00	9 50
" 55—	" 34 "	48 "	403 00	5 " 2 "	24 00	10 00

RICHARDSON & BOYNTON CO'S

1890 "SUCCESS" DOUBLE REVERTIBLE FLUE FURNACE.



CUT SHOWING GRATES USED.



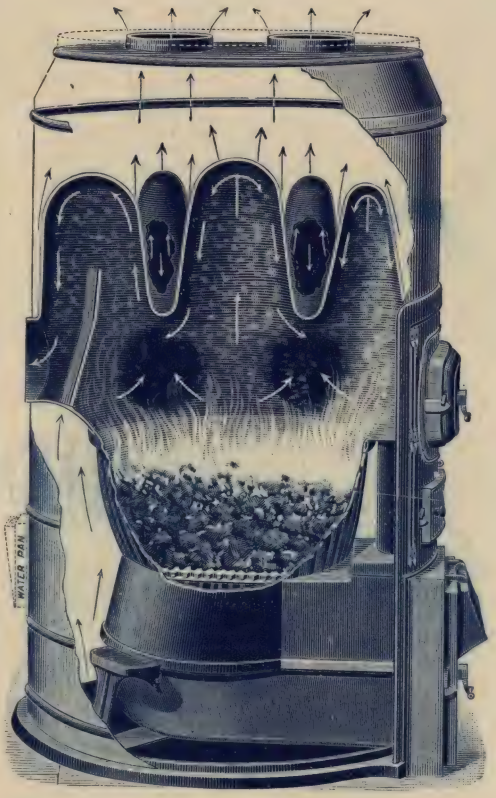
Enormously Powerful Heating Steel Radiator.

Is Gas-tight, Durable, Enormously Powerful; has "Success" Revolving Ash Clearing Grates, Dust Flue, Ash Pan, Sifting Grates, Lined Doors, etc. A Quick, Sharp Heating Furnace.

No.	*39*—	With	23½	inch	Pots—with	38	inch	Cases,	*$205 00*	Less Cases, *$177 00*
"	*42*—	"	26	"	"	41	"		*248 00*	" *217 00*
"	*45*—	"	28	"	"	44	"		*293 00*	" *257 00*
"	*49*—	"	31	"	"	48	"		*362 00*	" *310 00*
"	*55*—	"	34	"	"	54	"		*457 00*	" *396 00*

RICHARDSON & BOYNTON CO'S

1890 "ADVANCE" GAS-TIGHT FURNACE.



Sectional View of the New "ADVANCE" Furnace.

A MARVEL FOR QUICK AND POWERFUL HEATING.

CONSUMING ALL GASEOUS PRODUCTS OF COMBUSTION.

Height of Castings.

No.	1	4 feet 4	inches.
"	2	4 " 4	"
"	3	4 " 5	"
"	4	4 " 6	"
"	5	4 " 6½	"
"	6	4 " 9	"
"	7	4 " 10	"
"	8	5 "	

New and great results are here developed as follows : That as these cones become filled with light and heat, the pressure reflects this light and heat down upon the fuel and upon the inner surface of surrounding cones. The effect is of the utmost importance, as it not only keeps the top of the fire bright, but aids in the combustion thereof by consuming the gases, and also engenders a powerful heat which is absorbed by the cones, and externally radiated and dispersed downward around the entire heating apparatus. The reflection and counter reflection of heat and light greatly aid in the consumption of the gaseous products of combustion. It is also impossible for the cones to become coated with soot, owing to their peculiar construction.

RICHARDSON & BOYNTON CO'S

1890 "ADVANCE" GAS-TIGHT FURNACE.

Has the "Perfect" Grates,

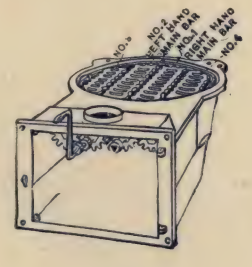
Which are the best ever used in a Furnace.

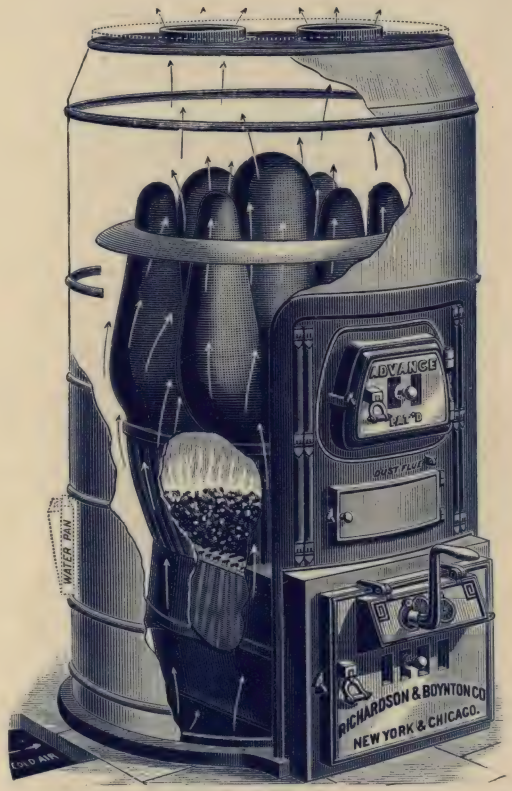
Has Dust Flue.

A Large Ash Pit,

and is first-class in every respect.

Low in Height.





PORTABLE OR BRICK-SET.

Suitable for **Hard** or **Soft Coal** or **Natural** Gas. This **"Advance" Furnace** has no bolted joints. Body being solid and constructed with special reference for heating quickly and powerfully. Is entirely new in all respects—Thoroughly tested—Gas-tight—Dust-tight—Easily managed and successful.

EIGHT SIZES.

		With Cases.	Less Cases	Brickset Form.
No. 1—	With 15¾ in. Pots, with 24 in. Casings,	*$91 00*	*$72 00*	
" 2—	" 16½ " " 28 "	*112 00*	*90 00*	
" 3—	" 18½ " " 32 "	*140 00*	*117 00*	
" 4—	" 21½ " " 36 "	*176 00*	*149 00*	*$149 00*
" 5—	" 24½ " " 40 "	*209 00*	*177 00*	*177 00*
" 6—	" 26½ " " 44 "	*249 00*	*213 00*	*213 00*
" 7—	" 29 " " 50 "	*289 00*	*249 00*	*249 00*
" 8—	" 35 " " 54 "	*365 00*	*320 00*	*320 00*

RICHARDSON & BOYNTON CO'S

1890 "PERFECT" STEEL PLATE FURNACE.

(TRADE MARK.)

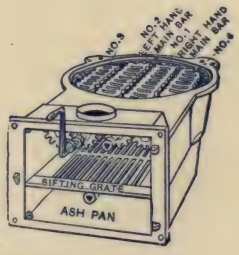
PORTABLE FORM.

Has Iron-Stone Lining for Fire Chamber.

BODY is of Steel Plate, lap seamed and absolutely tight.

Fitted with Perfect Revolving Grates, Dust Flue—Ash Pan—Sifting Grate—Heavy Doors.

Is Sharp, Quick, Powerful Heater, and will heat more than any Brick-Lined Pot Furnace made, because it is larger for same size cases.



With Iron-Stone Lined Fire Chamber.

	Fire Pot.	Casings.	With Cases.	Less Cases.
No.	*134*—20 inch,	32 inch,	*$135 00*	*$112 00*
"	*138*—21 "	36 "	*172 00*	*146 00*
"	*142*—24 "	40 "	*200 00*	*167 00*
"	*146*—27 "	44 "	*244 00*	*209 00*
"	*152*—31 "	50 "	*288 00*	*234 00*
"	*158*—35 "	56 "	*409 00*	*347 00*

RICHARDSON & BOYNTON CO'S

1890 "STEEL BODY" FURNACE.

With Steel Plate Body

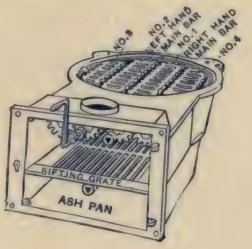
And Cast Firechamber.

QUICK HEATER.

POWERFUL.

ECONOMICAL.

CUT SHOWING GRATES USED.



Pots.		Casings.		Less Cases
No. *134*—18½ inch.		32 inch	*$149 00*	*$127 00*
" *138*—21 "		36 "	*189 00*	*163 00*
" *142*—24½ "		40 "	*225 00*	*193 00*
" *146*—26½ "		44 "	*264 00*	*228 00*
" *152*—29 "		50 "	*312 00*	*263 00*
" *158*—33 "		56 "	*434 00*	*372 00*

Including Water Pan, and Patent Damper.

RICHARDSON & BOYNTON CO'S
"WILLAMETTE" WOOD FURNACE.

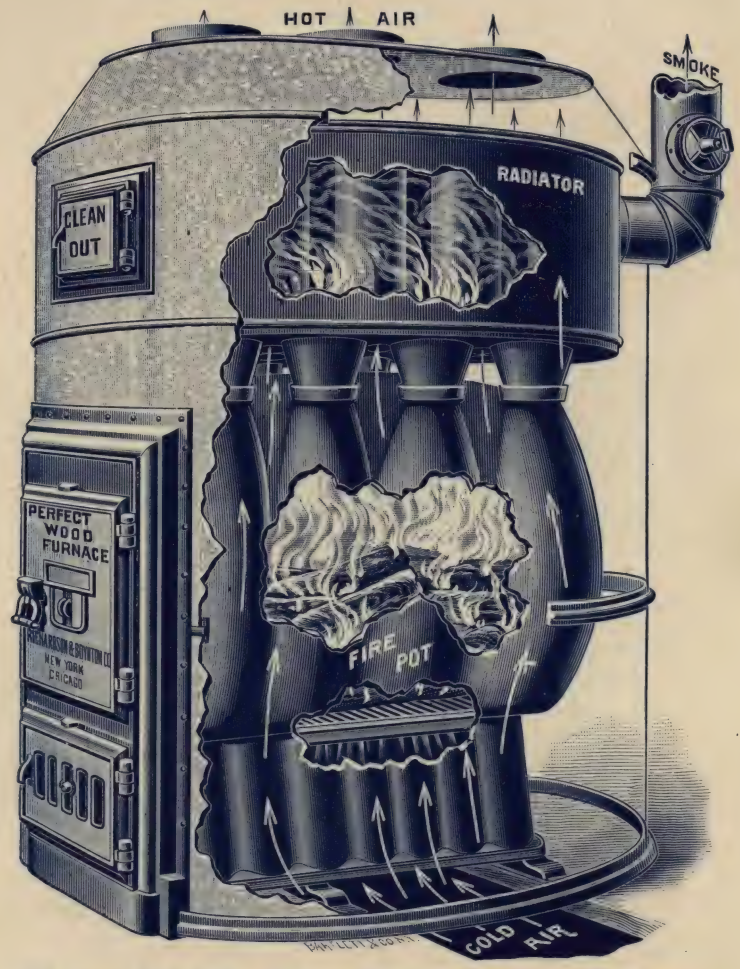
A quick heating powerful Wood Furnace with Large Doors.

		With Casings.	Less Cases.
No. *133*—	With 18½ in. Pots	*$135 00*	*$112 00*
" *137*—	" 21½ "	*172 00*	*146 00*
" *141*—	" 24½ "	*200 00*	*167 00*
" *145*—	" 26½ "	*244 00*	*209 00*
" *151*—	" 29 "	*288 00*	*239 00*
" *158*—	" 33 "	*409 00*	*347 00*

RICHARDSON & BOYNTON CO'S

1890 "PERFECT" WOOD FURNACE.

(TRADE MARK.)



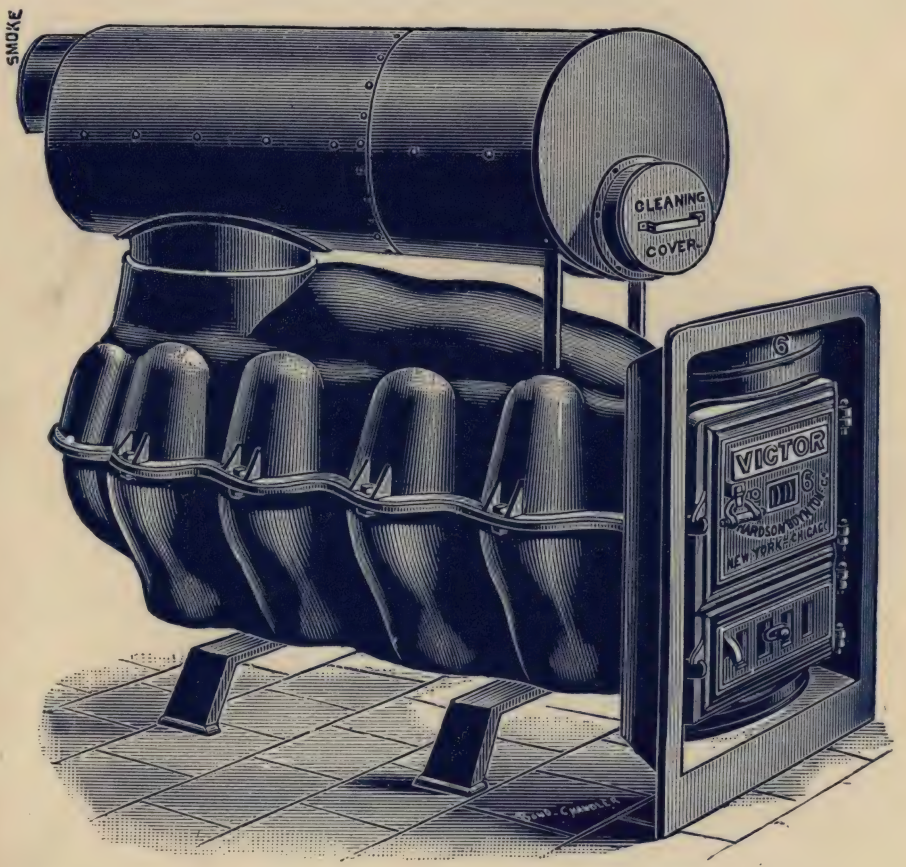
With heavy Cast Body, and powerful Heating "Steel Plate" Radiator.

Will heat a larger volume of air than has ever been accomplished in Wood Furnaces. Time tried and tested. Several thousand in use. Are fitted with **Grates** under Fire Chamber, thereby aiding **Combustion,** and **Increasing** the **Heating Capacity.**

	With Cases.	Less Cases.	Brick Set.	Covering Bars.
No. *16*—For 4½ ft.....	*$268 00*	*$232 00*	*$232 00*	*$14 50*
" *17*— " 4 ft. 8 in.....	*310 00*	*258 00*	*258 00*	*14 50*
" *18*— " 5 ft. Wood.....	*388 00*	*310 00*	*310 00*	*18 00*
" *19*— " 5 ft. "	*414 00*	*336 00*	*336 00*	*18 00*

RICHARDSON & BOYNTON CO'S

NEW "VICTOR" HEATING WOOD FURNACE.



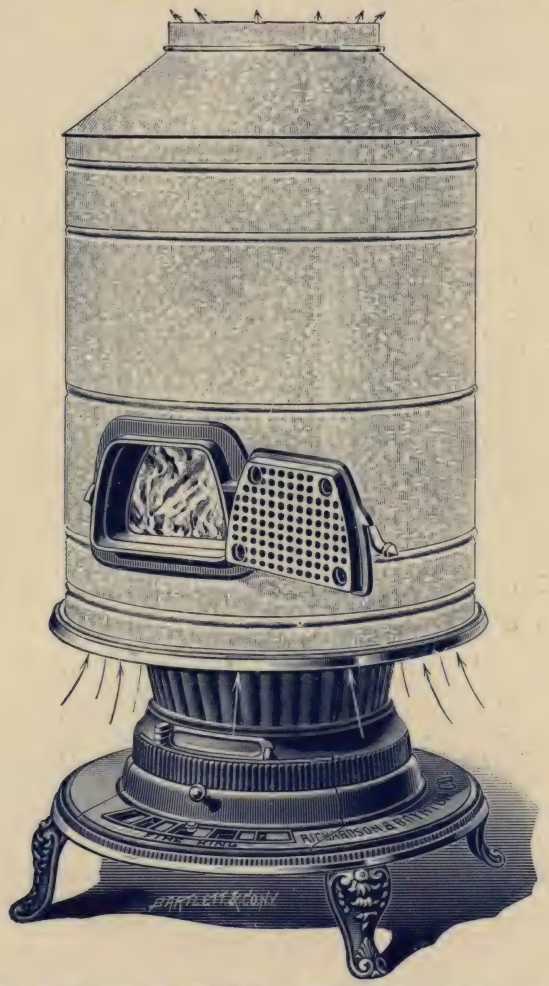
Has heavy durable Cast Corrugated Fire-Body and Wrought Iron Radiator.

No. 6. Dimensions of Fire Chamber, **4** feet **6** inches long ; width, **24** inches ; Height, **28** inches. Total height made up (with **20** inch Radiator), **4** feet **10** inches. Feed Door Opening **12** and **13½** inches. A cellar **6** feet in the clear will give good elevation to warm air pipes.

With Casings, *$215 00* Less Cases, *$185 00*

RICHARDSON & BOYNTON CO'S

1890 "FIRE KING" FURNACE.



For heating, **with one pipe and Register,** Offices, Stores, Depots, Halls, where a **Powerful Heater** is wanted.

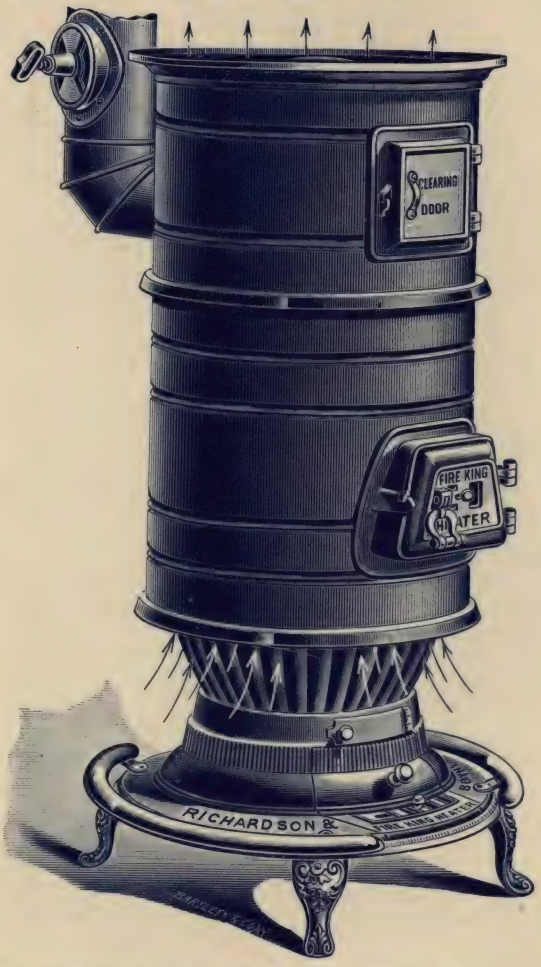
If two rooms are to be heated, a flat bonnet can be ordered.

No.	*22*—	With	20	inch,	Galvanized	Cases.....	*$49 50*	Less	Cases.....	*$41 75*
"	*24*—	"	24	"	"	"	*58 50*	"	"	*50 75*
"	*26*—	"	28	"	"	"	*68 50*	"	"	*58 50*
"	*28*—	"	32	"	"	"	*84 50*	"	"	*70 75*

Height of Cases can be made as desired.

RICHARDSON & BOYNTON CO'S

1890 "Fire King" Room Heater.



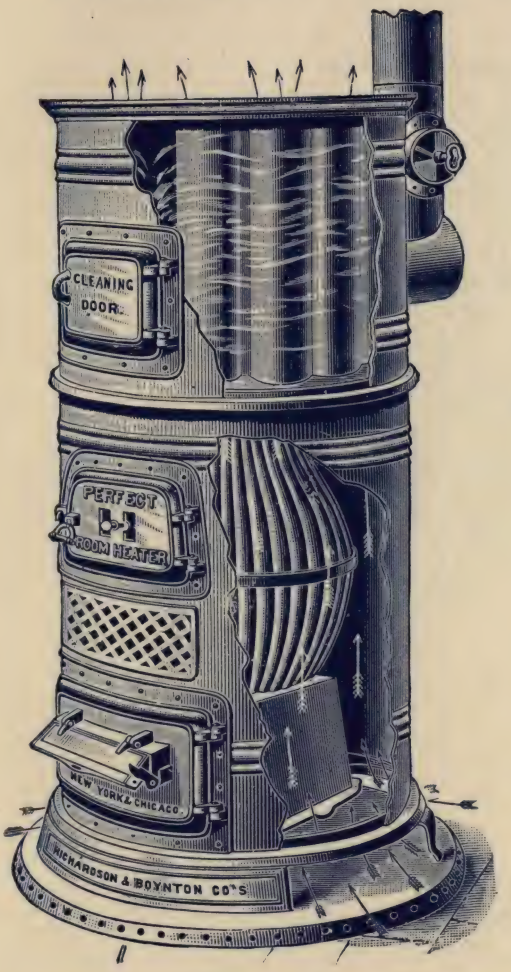
For heating School Rooms, Halls, Stores, Dining Rooms, etc.

The top Radiator constructed so as to directly **heat the Casings.** Heating **Quickly** and **Powerfully** by creating a circulation of air. Having an extraordinarily large heating surface, accomplishes satisfactory heating where stoves usually fail.

FOUR SIZES.

No. 22—Cased complete		$5 1 00
" 24— "		65 00
" 26— "		77 00
" 28— "		90 00
Ventilated Bottom, shown on cut, extra		6 00

RICHARDSON & BOYNTON CO'S "PERFECT" VENTILATING ROOM-HEATER.



The products of combustion heat the whole top half of cases direct, producing direct radiation in the room, in addition to creating circulation of air.

For heating Halls, Schools, Lecture Rooms, etc.

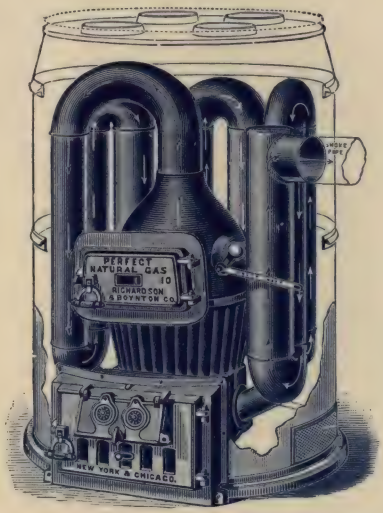
These Heaters create a circulation of air, heating all parts of room simultaneously.
The best **low priced room-heater** so far introduced. Those who have ever given the subject of heating and ventilating School buildings any thought, are conscious of the evil results of the present mode of heating by common stoves, with little or no change of air, and will appreciate the improvements contained in our **Room-Heater.**

No.	24—	With	24	inch	Planished	Iron	Cases,	$84 00
"	28—	"	28	"	"	"	"	95 00
"	32—	"	32	"	"	"	"	132 00
"	36—	"	36	"	"	"	"	165 00
"	40—	"	40	"	"	"	"	198 00

RICHARDSON & BOYNTON CO'S

"PERFECT" NATURAL GAS FURNACE.

(TRADE MARK.)



ESPECIALLY ADAPTED FOR BURNING NATURAL GAS.

The only Heater ever constructed which **provides** for taking care of the large amount of **deposits** and **acids** resulting from using **Natural Gas Fuel.**

It is a well-known fact that in using **Natural Gas** a large amount of **black acid deposit** is formed from condensation, which, if not taken care of, will destroy any apparatus, and that there is a heavier oozy deposit condensation which is still more severe in its action. These deposits are very corrosive in their nature and will burn a person's flesh if allowed to come in contact. Heretofore there has been nothing made in the heating line for using **Natural Gas** that is **Provided with Arrangements for Disposing of this Matter.** After much practical investigation and experience in the Natural Gas sections, ascertaining just what is required in the heating line so as to properly utilize Natural Gas, we have **Perfected** and **Embodied New Principles** and **Features** in this **New "Perfect" Natural Gas Furnace,** so that it will not only **burn Natural Gas splendidly,** but provides fully for disposing of all **deposits resulting therefrom.**

No. *10,* with 44-inch Cases, $ Less Cases, $

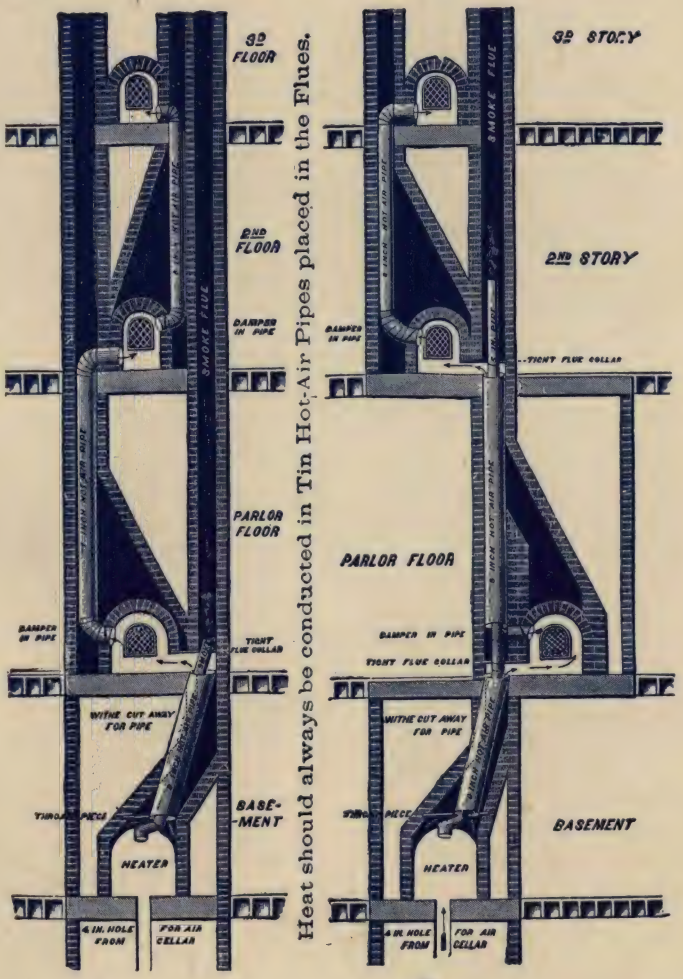
DIAGRAM SHOWING THE PROPER MANNER OF SETTING

"RICHARDSON & BOYNTON CO'S"

HEATERS.

Unless **Tin Hot-Air Pipes** are inserted in Chimney Flues, for conveyance of heat to rooms above, **HEAT PRODUCED** will be absorbed or escape in the open brick flues, and cannot be obtained in upper rooms as desired.

SET THEM only **WITH HOT-AIR PIPES PROPERLY PLACED** and **ARRANGED.**



Heat should always be conducted in Tin Hot-Air Pipes placed in the Flues.

No. 1 represents heat carried to first, second, and third stories in the flues of a STRAIGHT CHIMNEY—smoke pipe extending to first story.

No. 2 represents heat carried to first, second, and third stories in the flues of an OFFSET CHIMNEY—smoke-pipe carried to second floor.

RICHARDSON & BOYNTON CO'S

1890 "BALTIMORE" HEATER.

This Heater, universally known as the "Baltimore," and thousands of which have given perfect satisfaction, is

POWERFUL,

DURABLE,

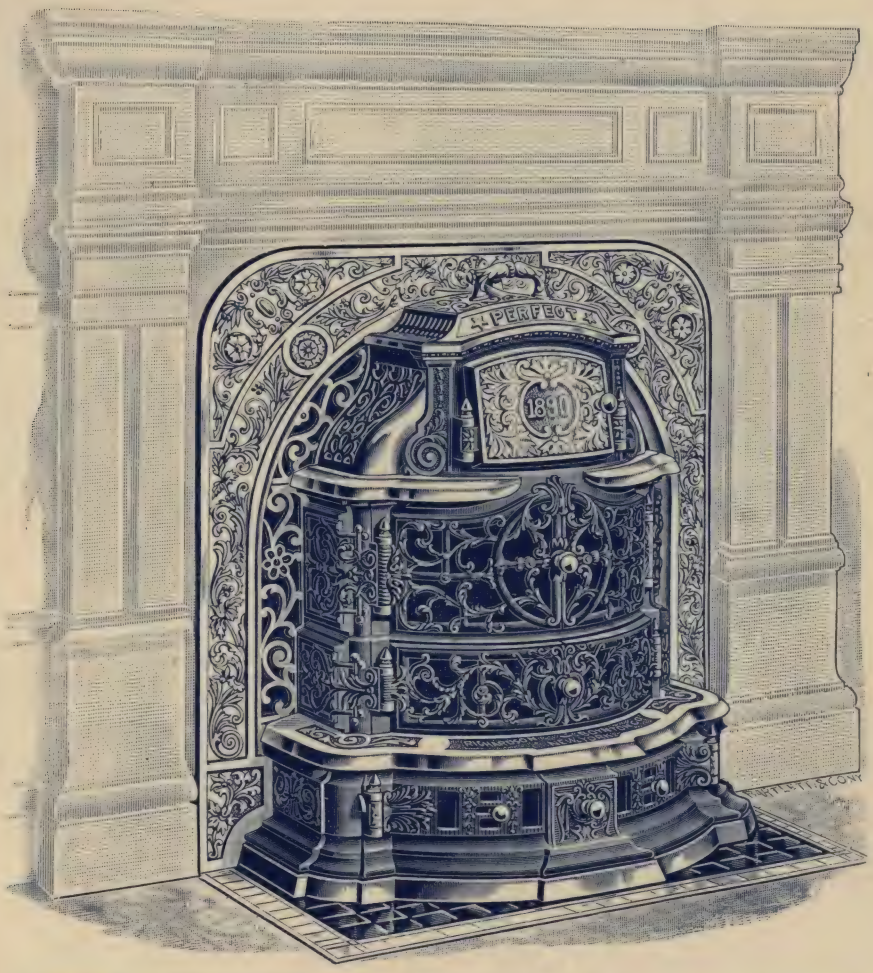
AND EFFICIENT.

One size, with japanned frames, Round, Square, or French ..... $

RICHARDSON & BOYNTON CO'S

1890 "PERFECT" REVERTIBLE-FLUE BASE-BURNING FIRE-PLACE HEATER.

(TRADE MARK.)



The only Heater conforming with the present style of interior architecture and household ornamentation.

Owing to its construction it heats powerfully below and above, by creating a circulation of warm air, in addition to the large direct radiation surfaces. Is larger—has greater heating capacity—will do more work—will last longer—will use less fuel, and more easily managed than any Heater ever introduced.

The cold winters of from 1882 to 1890 have demonstrated this fact in hundreds of cases.

One Size—With Round, Square, or French Corner Nickel Frames.....$

HOT-WATER HEATING.

Scientists and Heating Engineers acknowledge that the heat from Hot-Water is far more agreeable and healthful than from steam, and is the preferred one of the two systems of heating.

Medical experts, who have investigated the subject from a health standpoint, pronounce it superior in all respects to Steam as a mode of heating.

The interest manifested in Hot-Water Heating by Architects, Heating Engineers, and the public generally, and the demand for a HEATER AND SYSTEM which would, if properly applied, give entire satisfaction in all cases, maintaining a uniform temperature in all parts of the building, regardless of the variations of temperature of the outer atmosphere, has warranted us in making extensive and costly experiments, covering a number of years, which has resulted in the production of the

"PERFECT" HOT-WATER HEATER.

This Heater has been placed in successful operation in different sections of the country during the past three years, and in every case has given the most complete satisfaction.

We shall be pleased to give any required information regarding this system, and will answer all correspondence on the subject.

Respectfully,

RICHARDSON & BOYNTON CO.,

MANUFACTURERS,

232 & 234 WATER STREET, NEW YORK.

SAME ADDRESS FOR 29 YEARS. **84 LAKE STREET, CHICAGO.**

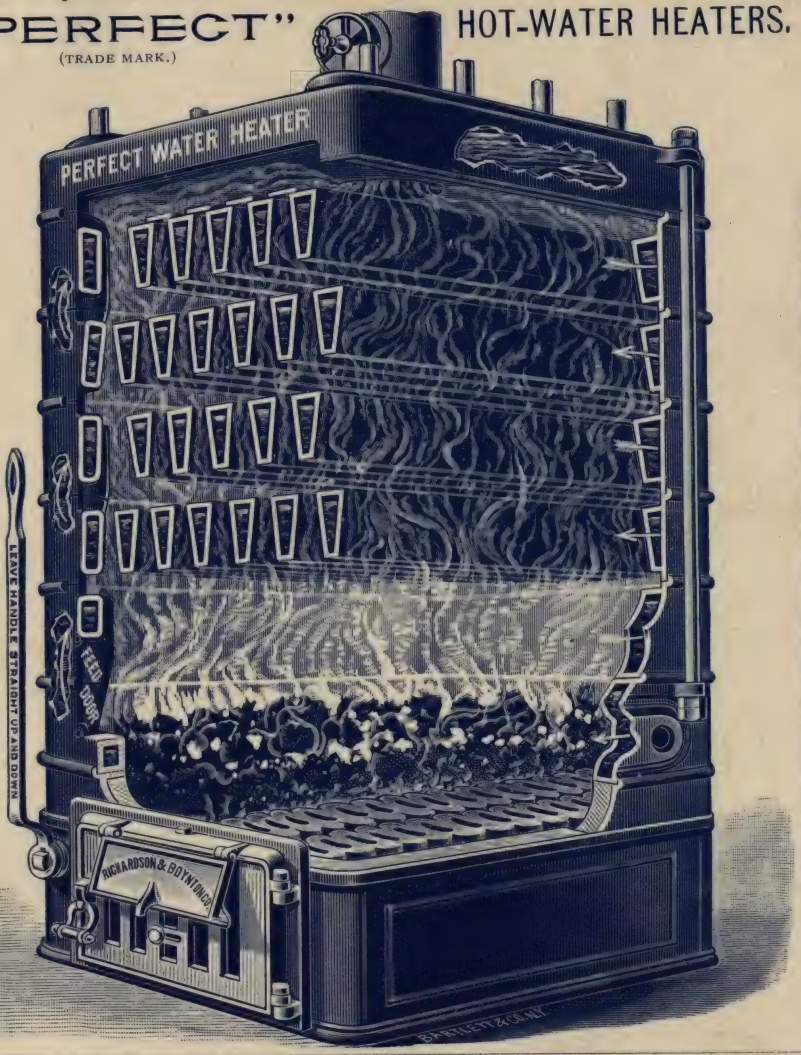
RICHARDSON & BOYNTON CO'S

"PERFECT" HOT-WATER HEATERS.

(TRADE MARK.)

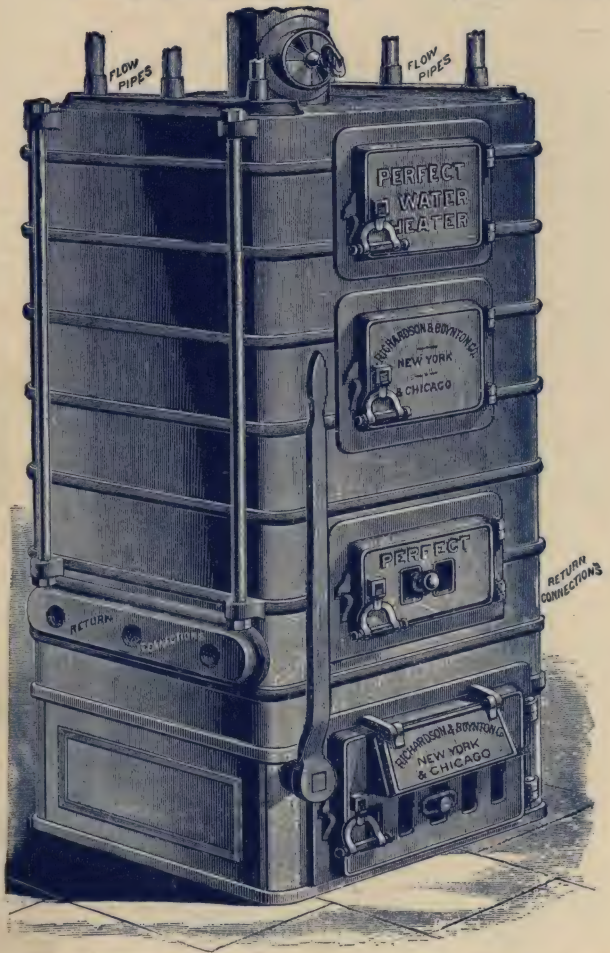
For heating Private Dwellings, Schools, Churches, Banks, Offices, Public Buildings, Greenhouses, Conservatories, etc

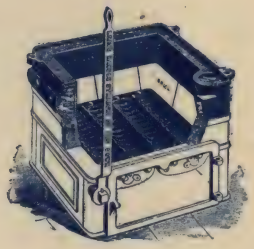
BY HOT-WATER CIRCULATION.



Number of Heater.	Height of Heater.	Dimensions of Fire Chamber inside the Brick.	Square Feet of Heating Surface in Heater.	Size of Smoke Pipe.	Square Feet of Radiating Surface Heater will Supply.	Cubic Feet of Air Space it will heat.	Price.
.1	44 in.	15¾ x 15¾ in.	29 Sq. ft	7 in.	200 Sq. ft	6000	$
.2	55 "	15¾ x 15¾ "	40 "	7 "	300 "	9000	
.2½	53 "	17½ x 17½ "	45 "	8 "	425 "	12500	
.3	59 "	17½ x 17½ "	53 "	8 "	500 "	15000	
.4	60 "	20¼ x 20¼ "	67 "	8 "	800 "	24000	
.4½	56 "	24 x 24 "	75 "	9 "	1100 "	33000	
.5	63 "	24 x 24 "	92 "	9 "	1350 "	40000	
.5½	69 "	24 x 24 "	110 "	9 "	1500 "	45000	
.6	64 "	28 x 28 "	125 "	10 "	2000 "	60000	
.7	66 "	31½ x 31½ "	160 "	11 "	3000 "	90000	
.8	68 "	35 x 35 "	212 "	12 "	4000 "	120000	
.9	82 "	35 x 35 "	295 "	12 "	4500 "	135000	

RICHARDSON & BOYNTON CO'S "PERFECT" HOT-WATER HEATER.





The **"PERFECT"** Heaters present 2½ times more Surface to the direct action of the Fire than any other Heater made, consequently they are the most powerful. They are self-cleaning, have more improvements for saving Fuel and Labor. Acknowledged by the leading Heating Engineers to be far in advance of any Heater made, for Superior Merit and Enormous Heating Capacity. They have been thoroughly tried and tested and are giving universal satisfaction.

HAS POSITIVE, QUICK CIRCULATION OF WATER.

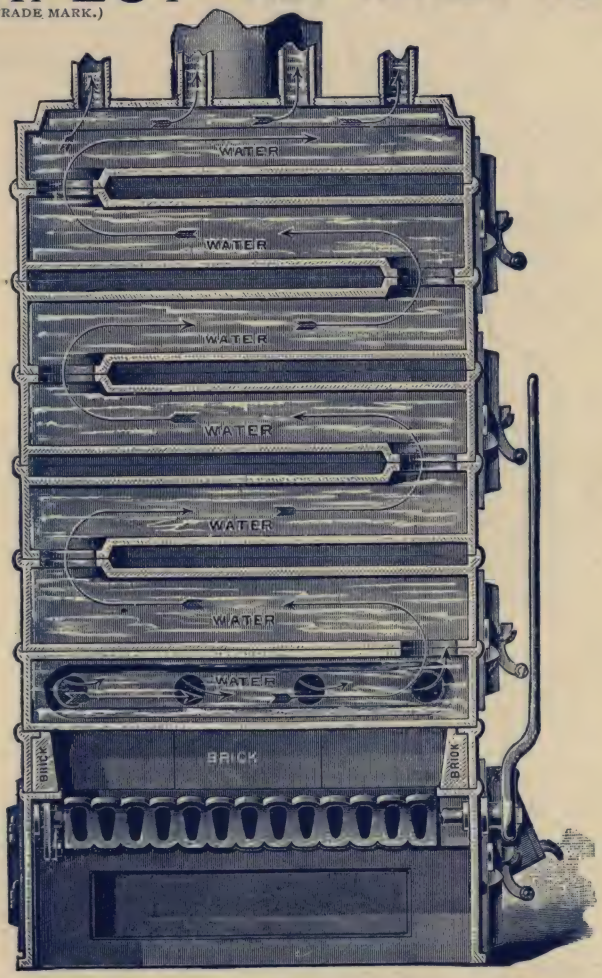
PERFECT COMBUSTION CHAMBER.

THE MOST POWERFUL WATER HEATER EVER CONSTRUCTED.

Has 2½ times more Square feet of Hot-Water Fire Surface ; hence, capable of Heating more Square feet of Radiation than any Heater made.

RICHARDSON & BOYNTON CO'S
"PERFECT" HOT-WATER HEATER.
(TRADE MARK.)

For Heating Private Dwellings, Schools, Churches, Banks, Offices, Public Buildings, etc.,



BY HOT-WATER CIRCULATION.

Water passes around and over the Fire seven times before reaching the Mains.

Flow and Return Openings are tapped for 2-inch pipe.

Every Heater tested to Eighty Pounds Hydraulic Pressure before leaving our Works.

The **"Perfect"** Heaters present 2½ times more Surface to the direct action of the Fire than any other Heater made, consequently they are the most powerful. They are self-cleaning, have more improvements for saving Fuel and Labor. Acknowledged by leading Heating Engineers to be far in advance of any Heater made, for Superior merit and Enormous Heating Capacity. They have been thoroughly tried and tested and are giving universal satisfaction.

The only Heater made which carries **every particle of water through each and every section,** thereby securing a rapid, thorough and perfect circulation.

Many of the most experienced Steam and Hot Water Heating engineers, having thoroughly examined these **"Perfect"** Hot-Water Heaters, have universally pronounced them far in advance for **superior merit and enormous heating capacity.**

When specially ordered, these Heaters are tapped for larger mains, or with Hubs for Green House heating.

RICHARDSON & BOYNTON CO'S "PERFECT" HOT-WATER HEATERS.

(TRADE MARK.)

CAPACITY.

No. 12 will heat from 75 to 100 sq. ft. Rad'rs. | No. 12 will heat 50 Gallons Water per hour.
No. 16 " " 175 to 200 " " | No. 16 " 100 " "
No. 20 " " 300 to 350 " " | No. 20 " 200 " "

No. 12, height 35 inches; No. 16, height 38½ inches; No. 20, height 40 inches.

FOR HEATING SMALL DWELLINGS, CONSERVATORIES, BATHS, ETC.

Best Low Priced Water Heater Ever Constructed.

Coal well ignited before coming in contact with water section. Water section cast in one solid cored casting. Fire Brick Section above the grate. Large Feeder. Large Top with Cover. Shaking, Swing Centre Grate. Largest Amount of Heating Surface and Greater Power of any Boiler yet constructed.

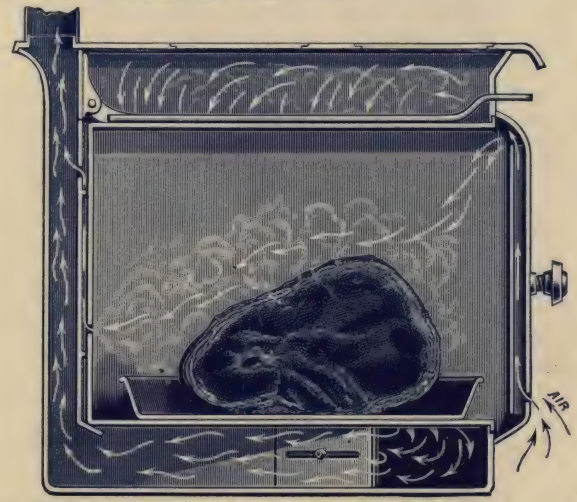
No. 12.....$
" 16.....
" 20.....

RICHARDSON & BOYNTON CO'S
"PERFECT" Double-Oven Ranges.

ALL HAVE OUR

FRONT BROILING ATTACHMENTS.

For Broiling in front of fire without interfering with other cooking. Steaks and chops elegantly broiled—quickly and easily done.



Cut illustrating the "PERFECT" Wrought Iron **French Roasting** and Pastry Ovens, showing steam and all odors passing off into chimney. Ten years in advance of all other ovens. All the "PERFECT" Ranges fitted with above style of ovens.

RICHARDSON & BOYNTON CO'S

"PERFECT"

(TRADE MARK.)

Wrought Iron Oven Range.

BRICK-SET OR PORTABLE FORM.

With this new Range we have filled a long-felt want for a first-class cooking Range having great cooking facilities, doing quick work, having large Broiling surface of fire, and with ovens that are easily removed so flues can be kept clean and free from soot.

We have thoroughly accomplished these demands in the new

"PERFECT" Wrought Iron DOUBLE-OVEN RANGE.

(TRADE MARK.)

Broiling can be done in front of fire without odors and not interfering with other cooking. It is unequaled for

ROASTING, BROILING, BAKING.

The ventilated wrought iron Ovens are each very large and portable—can be taken out without trouble, thus allowing for cleaning the flues easily and quickly—are **sensitive** to the heat—are thoroughly heated by time fire is under way—are larger than is found in any other range of equal length. **Fire Chamber** is spacious, presenting a large and beautiful broiling surface. Broiling facilities are unequaled. **Front** feeder **Broiler** Door is larger than any heretofore made.

Has 8 Boiler holes on top cooking surface—4 of these are directly over the fire.

Flue Plates, arranged to overcome the usual trouble with either poor or strong drafts, can quickly be adapted to draft of chimney, thus insuring equal cooking in both ovens.

Range has the "Perfect" revolving Grates, which can be removed without disturbing either the **Waterback** (Trade-mark.) or brick linings, thus saving much of the usual expense found in other goods.

Waterback is spacious, giving plenty of hot-water. We have also a **three side box** Waterback, especially adapted where larger Boilers are used. (These Box Waterbacks come additional price.)

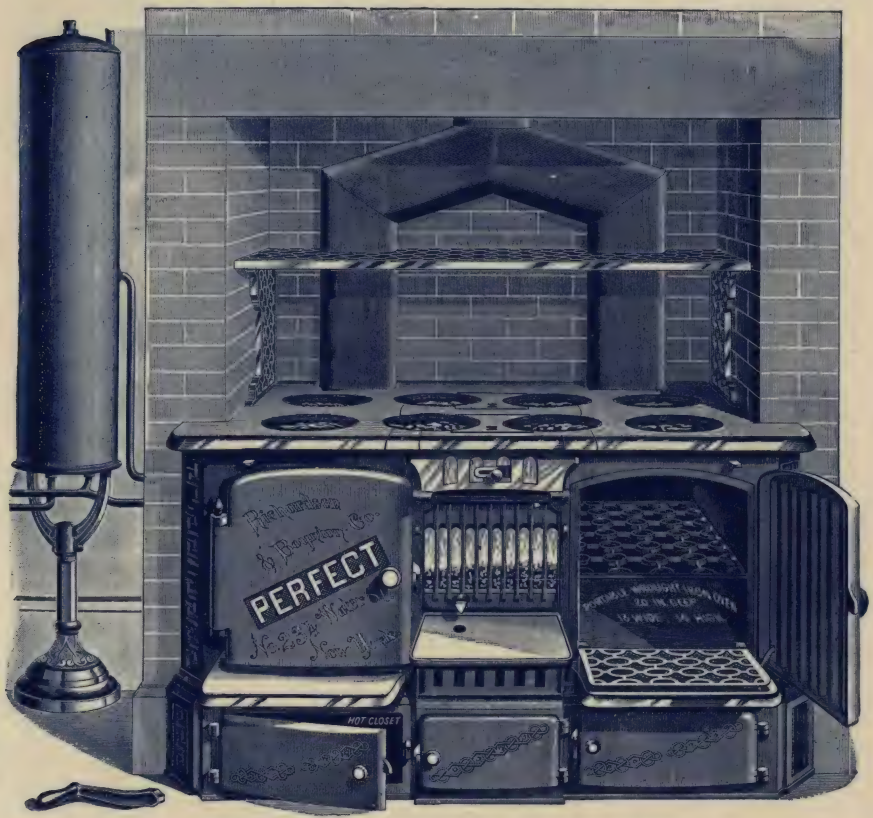
Ranges fitted with **Dust** Flue—Ash Pan—clinker **clearing** revolving **Grates—Direct** and indirect draft Dampers—**8 Boiler** holes on top—large flues.

These new quick operating wrought iron (portable oven) Ranges are a success—with larger **Ovens** and more **broiling** facilities than any brick-set Range known. (See pages 41 to 55

RICHARDSON & BOYNTON CO'S

"PERFECT" WROUGHT IRON DOUBLE-OVEN RANGE.

(TRADE MARK)



WITH NEW FRONT BROILER ARRANGEMENT,

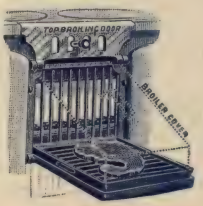
by which Chops and Steaks can be broiled without interfering with other cooking.

Range has Double Ventilated Ovens, making them quick and satisfactory bakers—economical in fuel—easily managed.

More cooking can be done with any size "Perfect" Range than any Range made.

Broiling can be done either in **Front,** or **Over,** or **Under** the fire, as desired.

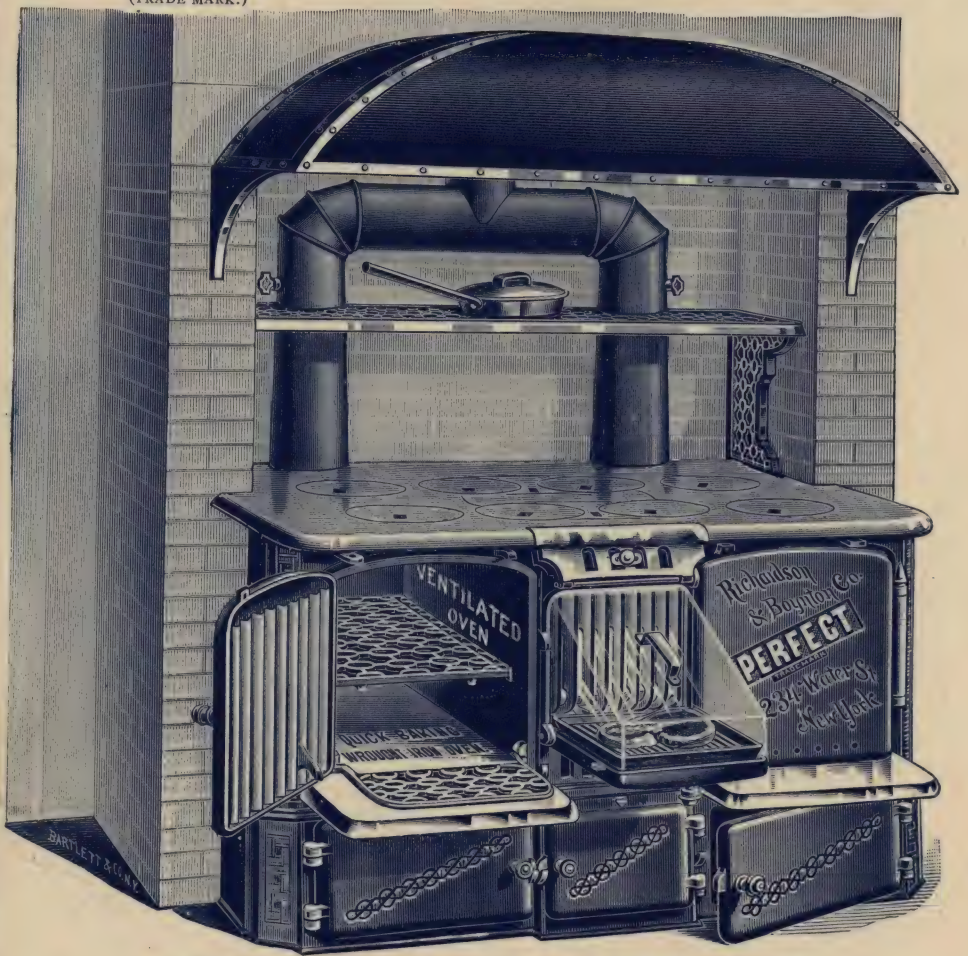
WIDTH. Between Jambs.	BRICK-SET. Less Closets.	BRICK-SET. With Hot Closets.
No. *88*—3 ft. 0 in.— six 8-in. Holes,	$	$
" *11*—3 ft. 6 in.— eight 8-in. "	70 00	89 50
" *12*—3 ft. 10 in.— eight 8-in. "	81 00	102 50
" *13*—3 ft. 10 in.— six 9-in. / two 8-in. "	88 00	110 00
" *14*—4 ft. 6 in.— eight 9-in. "	119 00	141 00
" *15*—5 ft. 1 in.— eight 9-in. "	140 00	156 00
Waterbacks	8 00	8 00
" for large Boiler...	13 00	13 00
Cast Plate Racks...	8 00	8 00



CUT OF FRONT BROILER.

RICHARDSON & BOYNTON CO'S "PERFECT" WROUGHT IRON DOUBLE OVEN RANGE.

(TRADE MARK.)



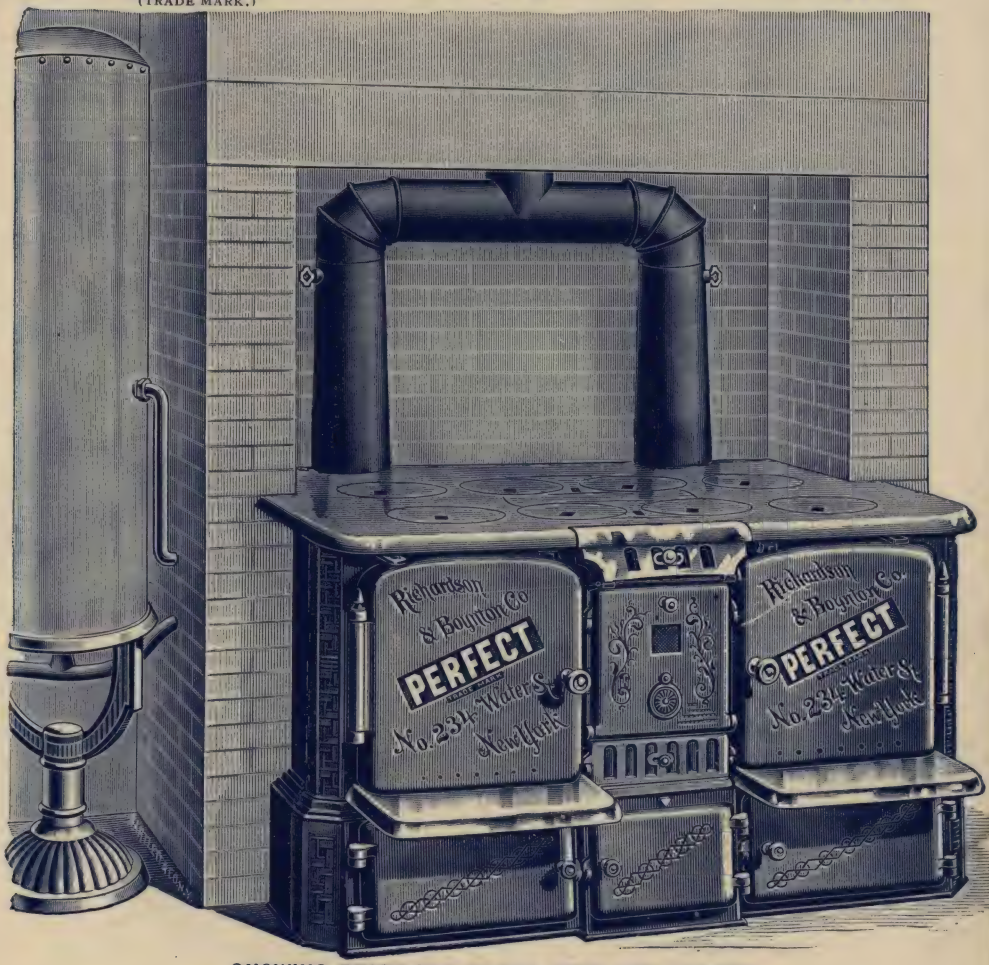
SHOWING BRICK-SET RANGE WITH PLATE RACK AND CANOPY.

More cooking can be done with any size "Perfect" Range than any Range made Broiling can be done either in **Front,** or **Over,** or **Under** the fire, as desired.

	WIDTH. Between Jambs.		BRICK-SET. Less Closets.	BRICK-SET. With Hot Closets.
			$	$
No. *88*	—3 ft.	Six 8-in. Holes,	*70 00*	*89 50*
" *11*	—3 ft. 6 in.—	Eight 8-in. "	*81 00*	*102 50*
" *12*	—3 ft. 10 in.—	Eight 8-in. "	*88 00*	*110 00*
" *13*	—3 ft. 10 in.—	Six 9-in. / Two 8-in. "	*119 00*	*141 00*
" *14*	—4 ft. 6 in.—	Eight 9-in. "	*140 00*	*156 00*
" *15*	—5 ft. 1 in.—	Eight 9-in. "	*8 00*	*8 00*
Waterbacks			*13 00*	*13 00*
"	for large Boiler		*8 00*	*8 00*
Cast Plate Racks			*$20 to $28*	*$20 to $28*
Canopies				

RICHARDSON & BOYNTON CO'S "PERFECT" WROUGHT IRON DOUBLE OVEN RANGE.

(TRADE MARK.)



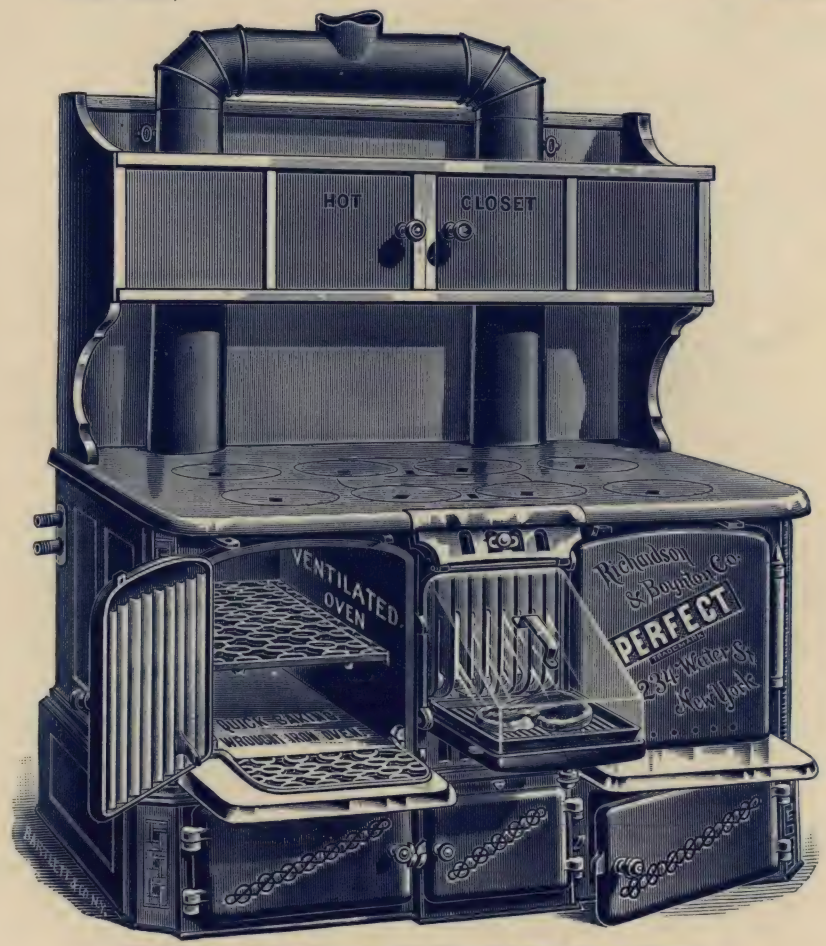
SHOWING BRICK-SET RANGE WITH HOT CLOSET.

These Hot Closets are a great convenience for keeping Meats and Vegetables warm. Having superior facilities for roasting, broiling, baking, etc. Most attractive and elegant range of the day. A wonderful success for quick and satisfactory cooking.

	WIDTH. Between Jambs.					BRICK-SET. With Hot Closets.
No. *88*—	3 ft.	Six 8-in. Holes,	Ovens	16¼ x 13 x 10		$
" *11*—	3 ft. 6 in.—	Eight 8-in.	" "	20 x 12 x 14		*89 50*
" *12*—	3 ft. 10 in.—	Eight 8-in.	" "	20 x 13 x 14		*102 50*
" *13*—	3 ft. 10 in.—	Six 9-in. / Two 8-in.	" "	20 x 13 x 14		*110 00*
" *14*—	4 ft. 6 in.—	Eight 9-in.	" "	20 x 16 x 14		*141 00*
" *15*—	5 ft. 1 in.—	Eight 9-in.	" "	20 x 16 x 14		*156 00*
Waterbacks						*8 00*
"	for large Boilers					*13 00*
Cast Plate Racks						*8 00*

RICHARDSON & BOYNTON CO'S "PERFECT" WROUGHT IRON DOUBLE-OVEN RANGE.

(TRADE MARK.)



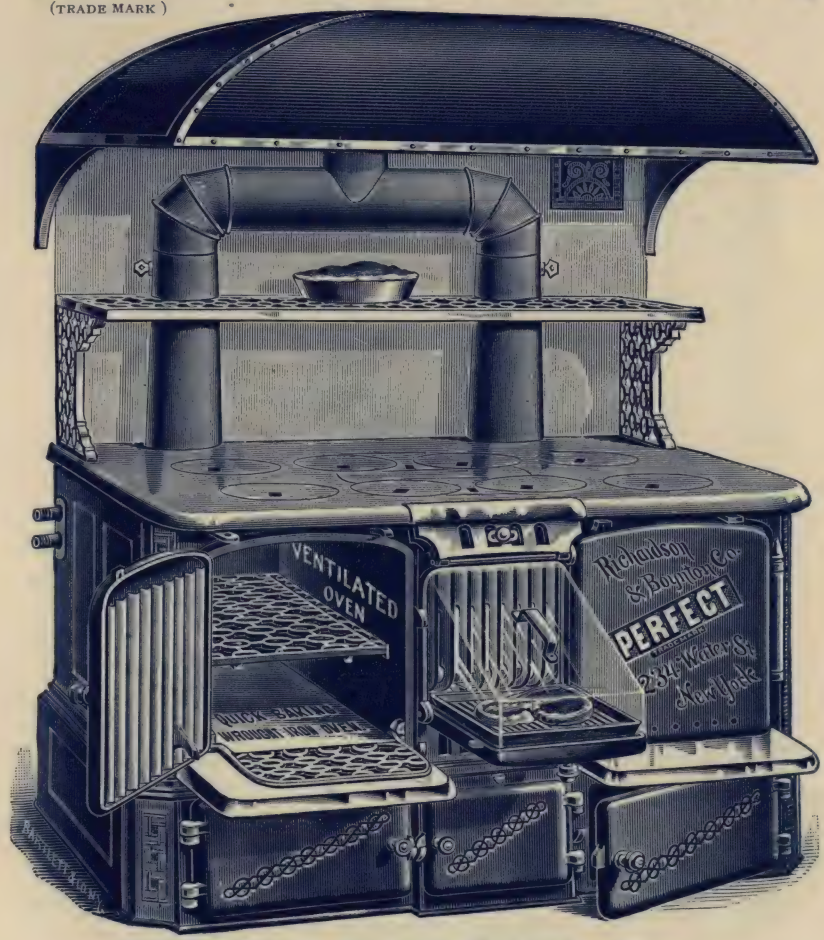
Showing Portable Range with Wrought Iron Upper Closet.

The Ranges are creating a furore among all users on account of the attractive **Cooking Facilities** for **Broiling, Baking, Roasting, and General Cooking,** easily and quickly done, **Grates** cut off the bottom of fires without dust—operated with all doors closed.

	Length of Top.	Price of Portable Form, Less Hot Closets	Portable Form, with Hot Closets.
		$	$
No. 88—Double-Oven	43¼ inches.	77 75	97 00
" 11— "	49½ "	88 00	110 00
" 12— "	53 "	96 00	118 00
" 13— "	53 "	132 00	156 00
" 14— "	60 "	150 00	171 00
" 15— "	61 "	8 00	8 00
Waterbacks		13 00	13 00
Large Waterbacks		26 00	26 00
Upper Hot Closets			

RICHARDSON & BOYNTON CO'S
"PERFECT" Wrought Iron Double Oven Range.

(TRADE MARK)



Showing Range with Hot Closets, Plate Rack and Canopy.

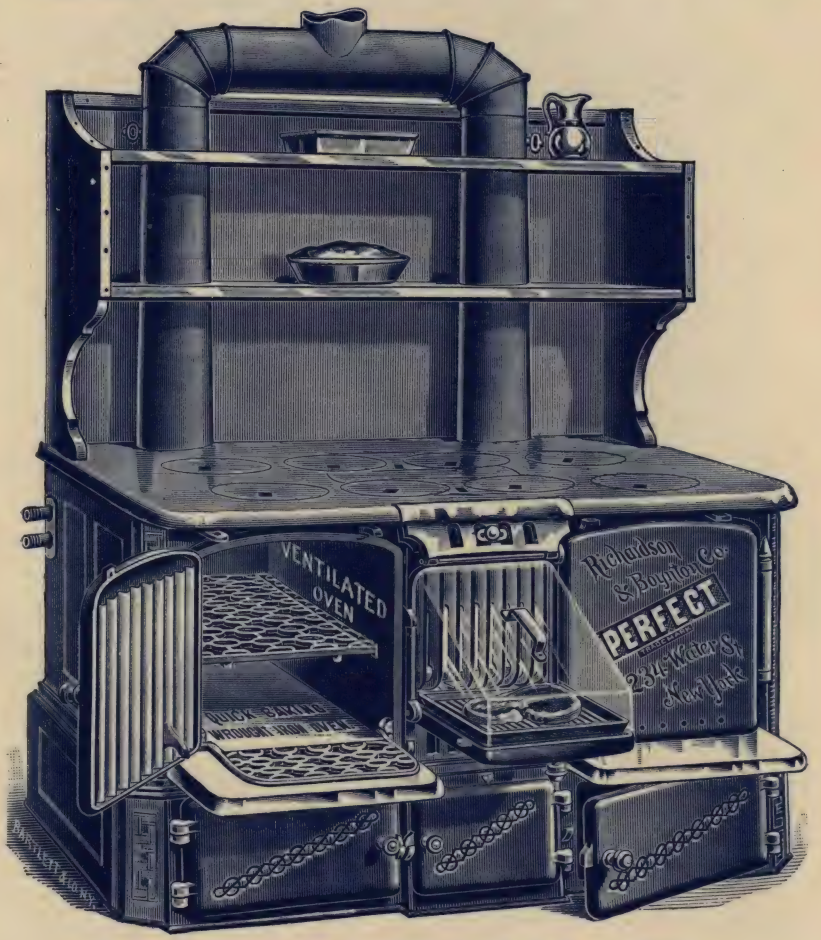
	Length of Top.	Price of Portable Form, Less Hot Closets.	Portable Form. with Hot Closets.
No. *88*, Double Oven	43¼ inches.	$	$
" *11*, "	49½ "	*77 75*	*97 00*
" *12*, "	53 "	*88 00*	*110 00*
" *13*, "	53 "	*96 00*	*118 00*
" *14*, "	60 "	*132 00*	*156 00*
" *15*, "	61 "	*150 00*	*171 00*
Waterbacks		*8 00*	*8 00*
Large Waterbacks		*13 00*	*13 00*
Cast Plate Racks		*8 00*	*8 00*
Canopy and Brackets		*$20 00 to $28 00*	*$20 00 to $28 00*
Ventilating Register		*3 00*	*3 00*

☞ Can also be fitted with **Single Hole over fire,** if so ordered.

RICHARDSON & BOYNTON CO'S

"PERFECT" Wrought Iron Double Oven Range.

(TRADE MARK.)



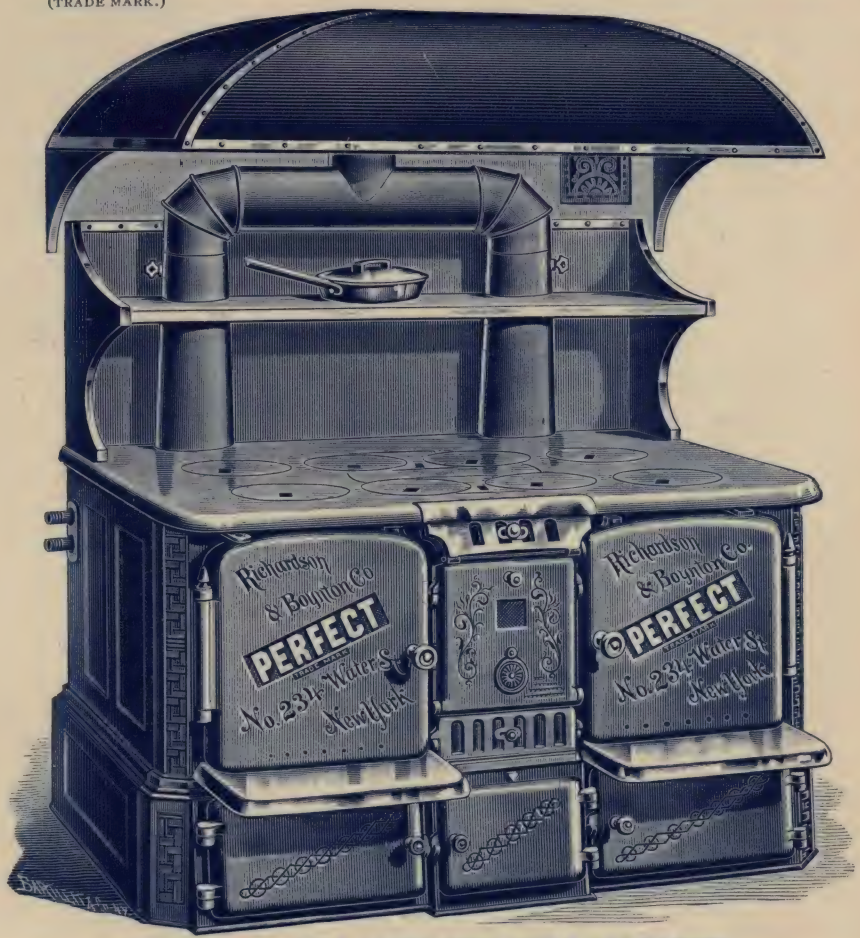
Showing Wrought Iron Double Shelf and Back for Dishes.

	Length of Top.	Less Hot Closets.	With Hot Closets.
		$	$
No. 88—Double Oven.....	43¼ inches.	77 75	97 00
" 11— "	49½ "	88 00	110 00
" 12— "	53 "	96 00	118 00
" 13— "	53 "	132 00	156 00
" 14— "	60 "	150 00	171 00
" 15— "	61 "	8 00	8 00
Waterbacks.....		13 00	13 00
Large Waterbacks.....		21 00	21 00
New Double Shelf and Back.....			

RICHARDSON & BOYNTON CO'S

"PERFECT" Wrought Iron Double Oven Range.

(TRADE MARK.)



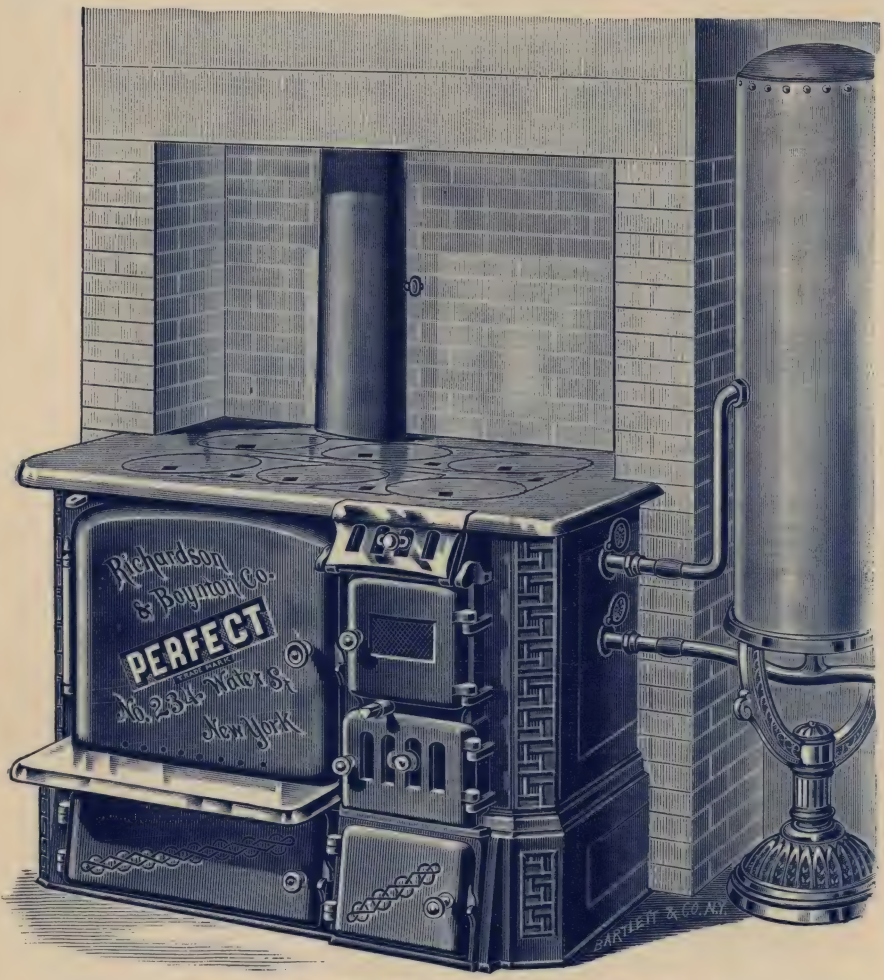
SHOWING PORTABLE RANGE WITH SHELF AND CANOPY.

All cooks like these **"Perfect"** Ranges. This in itself is the best recommendation.

	Length of Top.	Price of Portable Form, Less Hot Closets.	Portable Form, with Hot Closets.
		$	$
No. *88*, Double Oven	43¼ inches.	*77 75*	*97 00*
" *11*, "	49½ "	*88 00*	*110 00*
" *12*, "	53 "	*96 00*	*118 00*
" *13*, "	53 "	*132 00*	*156 00*
" *14*, "	60 "	*150 00*	*171 00*
" *15*, "	61 "	*8 00*	*8 00*
Waterbacks		*13 00*	*13 00*
Large Waterbacks		*21 00*	*21 00*
Wrought Iron Shelf and Back		*$20 00 to $28 00*	*$20 00 to $28 00*
Canopy and Brackets			

RICHARDSON & BOYNTON CO'S
"PERFECT" Wrought Iron Single Oven Range.

(TRADE MARK.)



SHOWING BRICK-SET RANGE AND HOT CLOSET.

Right or Left-Hand Fire Chamber.

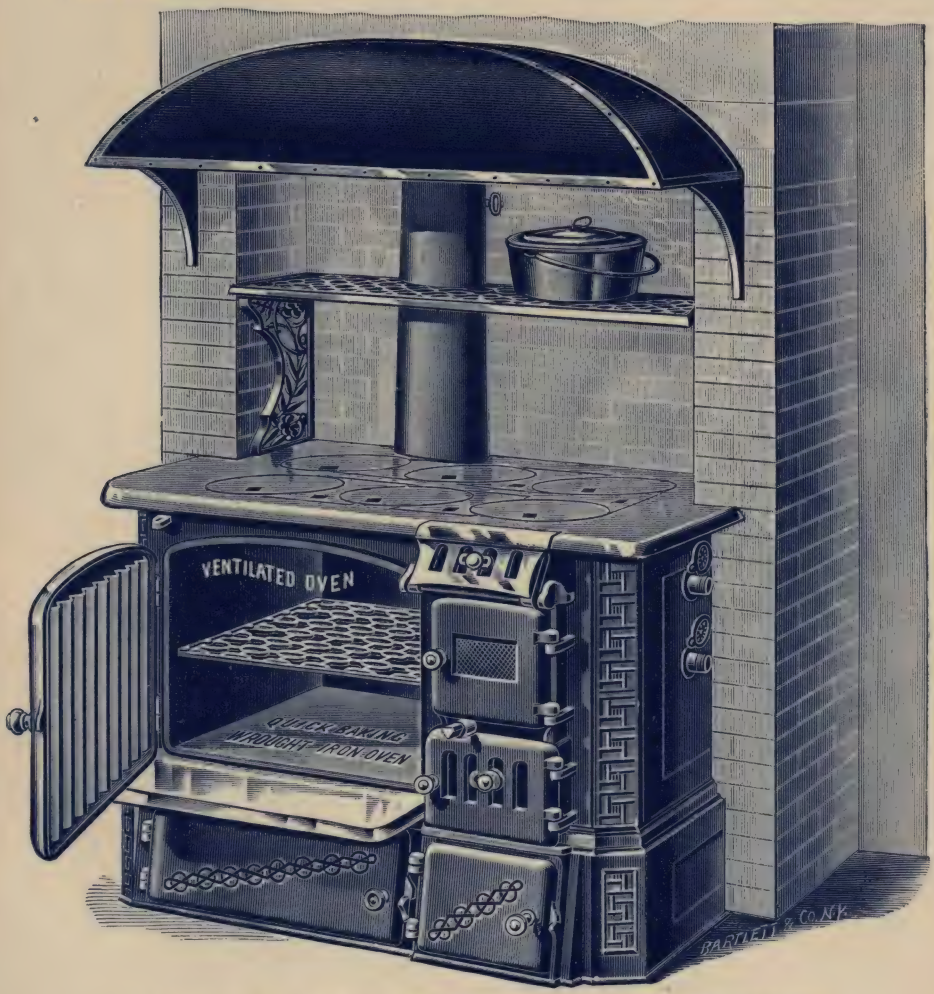
Single adjustable oven 20x18—can be removed easily for cleaning flues and easily keeping Range in order—Has Perfect Revolving Grates—Ash Pan—Sifter—Dust Flue, etc., etc.

No. *O*—Brick-set, has six 8-in. Boiler Holes, is 2 ft. 9 in. wide between Jambs, 12 in. depth of jamb required; depth of Range, 26 inches; 41½ in. width of front	*$67 75*
Waterback	*8 00*
Plate Racks	*6 00*

RICHARDSON & BOYNTON CO'S

"PERFECT" WROUGHT IRON SINGLE OVEN RANGE.

(TRADE MARK).



SHOWING BRICK-SET RANGE WITH PLATE RACK AND CANOPY.

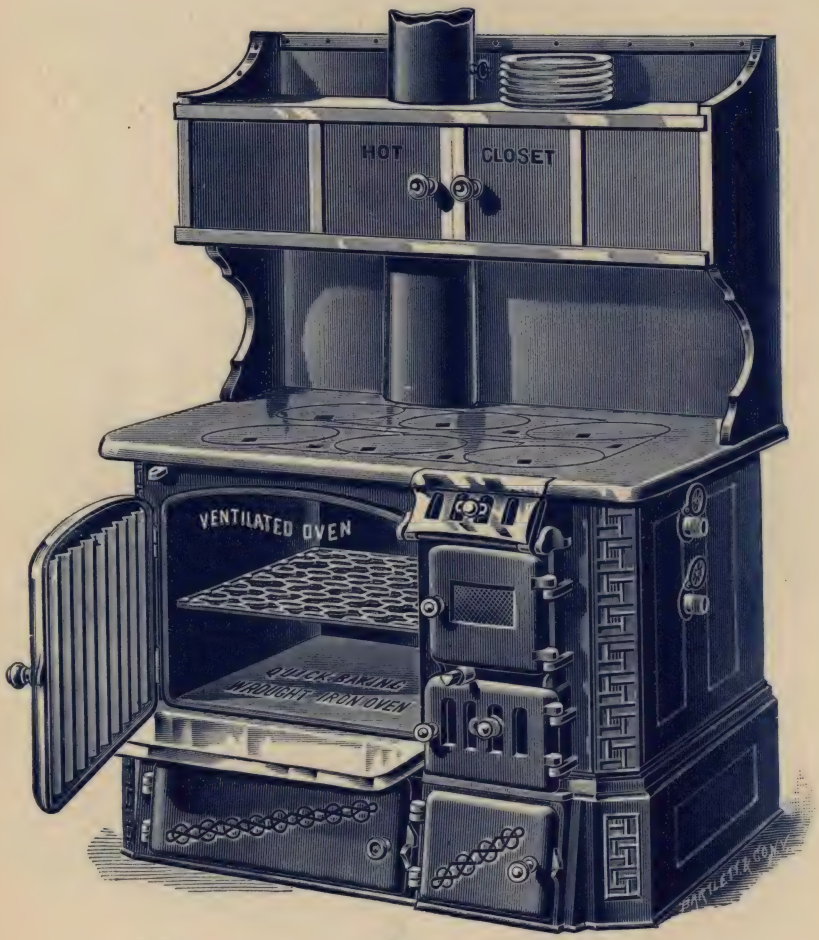
Single adjustable oven 20x18—can be removed easily for cleaning flues and easily keeping Range in order—Has Perfect Revolving Grates—Ash Pan—Sifter—Dust Flue, etc., etc.

No. *O*—Brick-set, has six 8-in. Boiler Holes, is 2 ft 9 in. wide between Jambs, 12 in. depth of jamb required; depth of Range, 26 inches; 41½ in. width of front	$67 75
Waterbacks	8 00
Plate Racks	6 00
Canopy for Brick-Set Range	14 00

RICHARDSON & BOYNTON CO'S

"PERFECT" Wrought Iron Single Oven Range.

(TRADE MARK.)



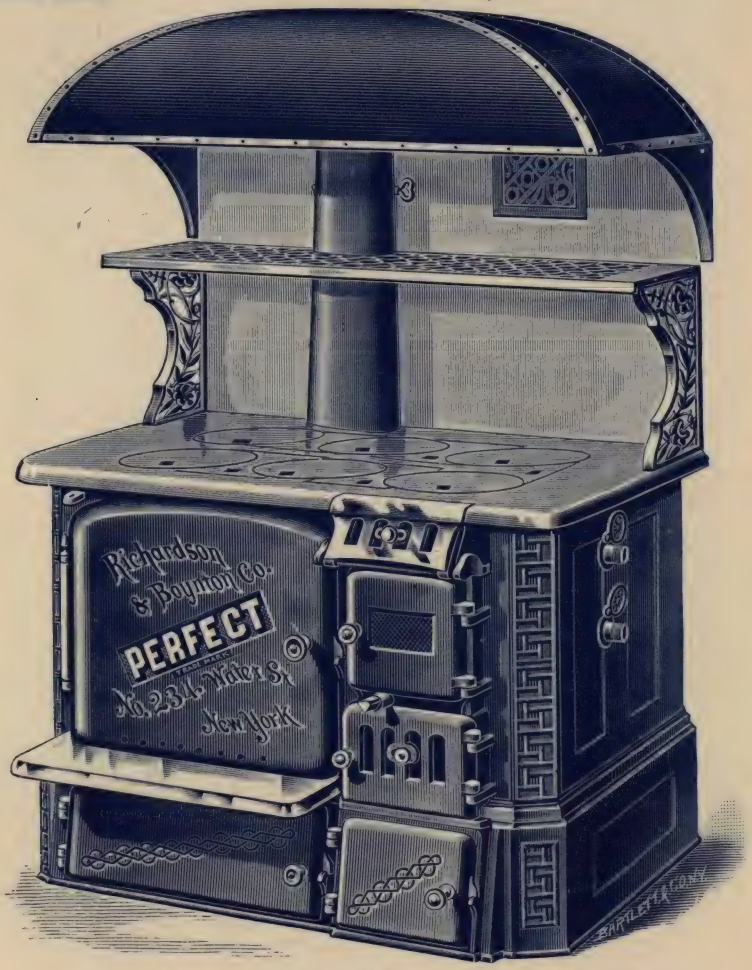
SHOWING RANGE WITH UPPER HOT CLOSET.

Right or Left-Hand Fire Chamber.

No. *0*--Portable 41½ in. wide, six 8-in. holes	*$70 00*
" *09*-- " 41½ " six 9-in. "	*70 00*
Waterbacks	*8 00*
Wrought Iron Upper Hot Closets	*20 00*

RICHARDSON & BOYNTON CO'S
"PERFECT" Wrought Iron Single Oven Range.

(TRADE MARK.)



SHOWING PLATE RACK AND CANOPY.

With Right or Left-Hand Fire Chamber.

No. 0—Portable 41½ in. wide, six 8-in. holes	$70 00
" 09— " 41½ " six 9-in. "	70 00
Waterbacks	8 00
Plate Racks	6 00
Canopy	16 00
Ventilating Register	3 00

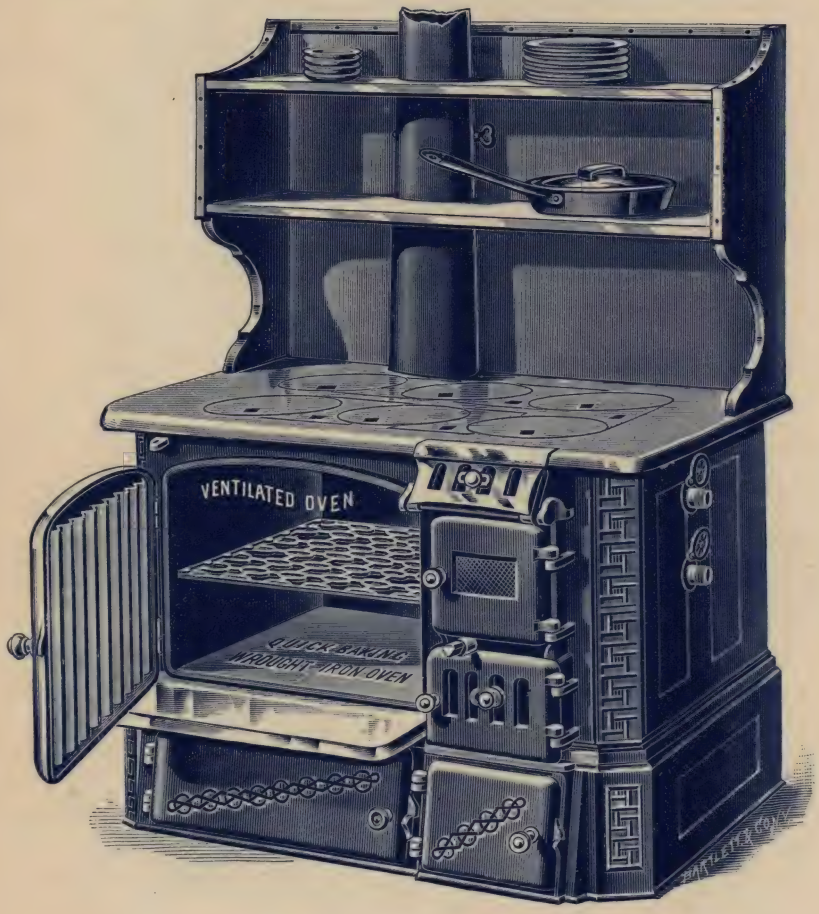
THESE "PERFECTS" ARE SPLENDID, QUICK OPERATORS.
(Trade Mark.)

Economical, Durable—Always please parties using them.

RICHARDSON & BOYNTON CO'S

"PERFECT" Wrought Iron Single Oven Range

(TRADE MARK.)



Showing Wrought Iron Double Shelf for Dishes.

Right or Left-Hand Fire Chamber.

No. *0*--Portable 41½ in. wide, six 8-in. holes	*$70 00*
" *09*— " 41½ " six 9-in. "	*70 00*
Waterbacks	*8 00*
Wrought Iron Double Shelf for Dishes	*20 00*

RICHARDSON & BOYNTON CO'S

"PERFECT" Wrought Iron Single Oven Range.

(TRADE MARK.)

With Wrought Iron Single Shelf and Canopy.

Right or Left-Hand Fire Chamber.

Single adjustable oven 20x18—can be removed easily for cleaning flues and easily keeping Range in order—Has Perfect Revolving Grates—Ash Pan—Sifter—Dust Flue, etc., etc.

No. 0—Portable 41½ in. wide, six 8-in. holes	$70 00
" 09— " 41½ " six 9-in. "	70 00
Waterbacks	8 00
Wrought Iron Single Shelf and Back	18 00
Canopy	16 00

RICHARDSON & BOYNTON CO'S "PROVIDENT" RANGE.

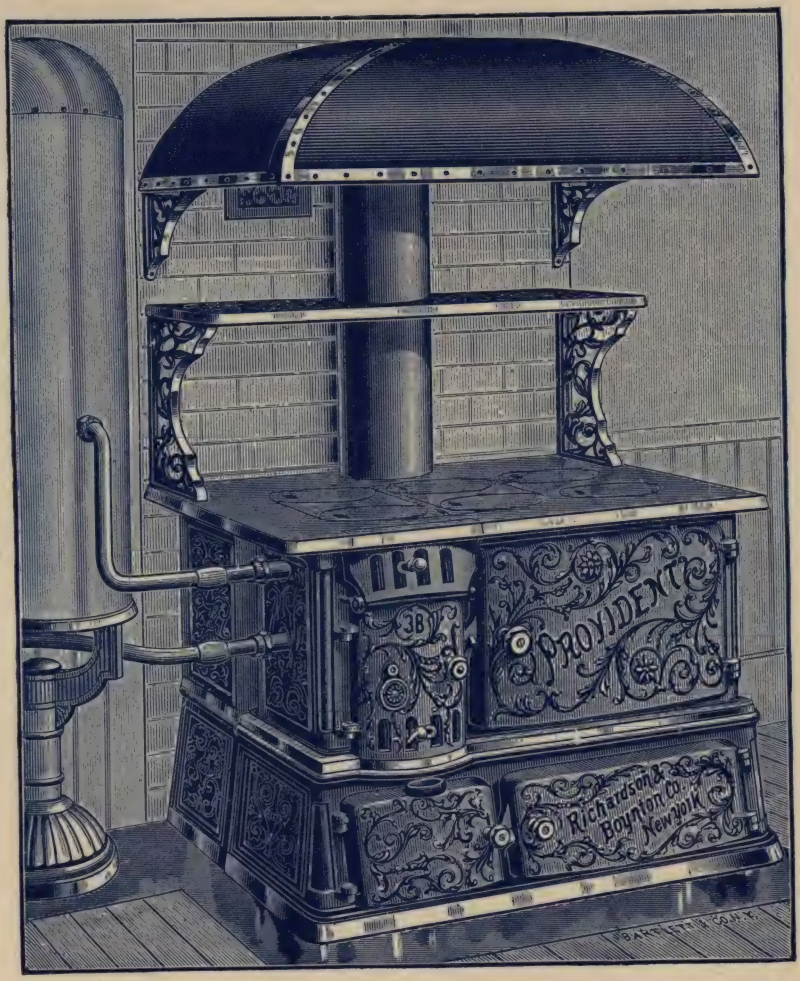
WITH SIX 8-INCH BOILER HOLES.

More Providents in use than any range made. Have **"Perfect"** Revolving Grates, Fitted with Sifting Grate, Ash Pan, Spacious Waterback, large Oven, large Flues, etc. Immensely popular—sure and quick bakers. Economical in fuel. Has large Oven and Hot Closets.

	No. 37 Size.	No. 38 Size.	No. 48 Size.
Range, less Hot Closet	$30 50	$32 50	$32 50
With Lower Hot Closet	33 00	37 00	35 00
Waterbacks	8 00	8 00	8 00
Cast Plate Racks	5 50	5 50	5 50
Canopies	13 50	13 50	13 50

Sizes.	No. 37.	No. 38.	No. 48.
Width of Front,	33 in.	39 in.	33 in.
" bet. Jambs,	30 "	33 "	33 "
Depth of Jambs,	12 "	12 "	12 "
" of whole top,	23 "	26 "	25 "
Height,	28½ "	30½ "	28½ "
Boiler Holes,	7 "	8 "	8 "
Oven,	16x17	18x18½	18x18

RICHARDSON & BOYNTON CO'S
"PROVIDENT" Portable Range.



PORTABLE.

ARE SPLENDID COOKERS. GIVE UNIVERSAL SATISFACTION.

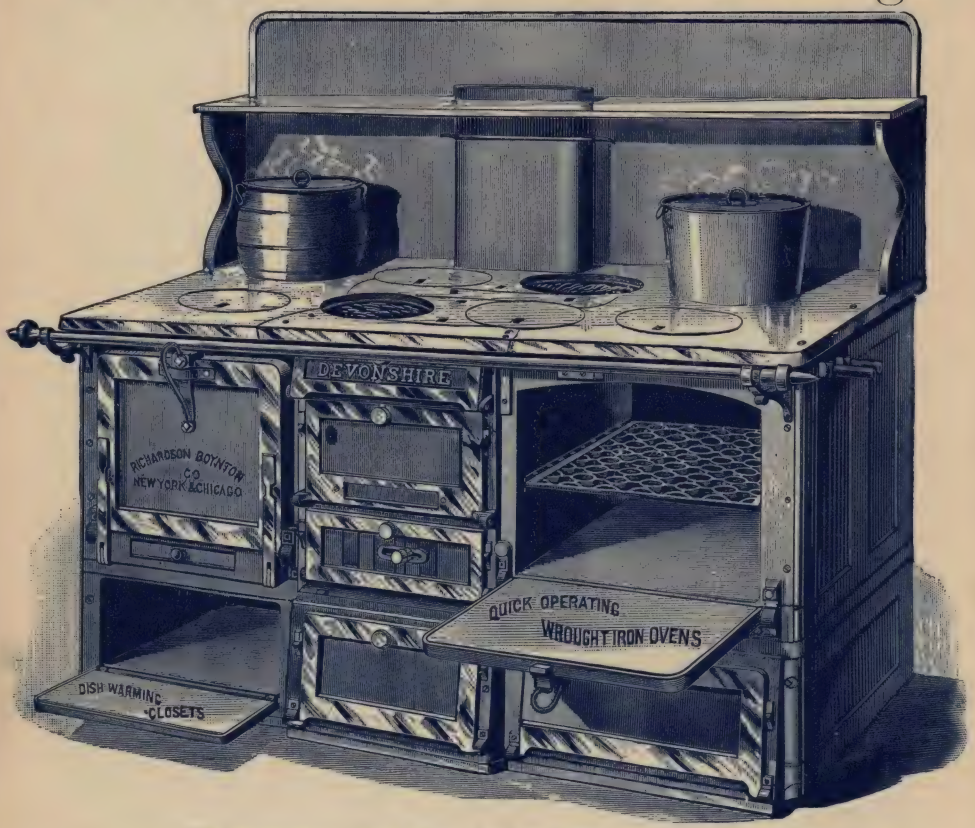
FITTED WITH OR WITHOUT CAST PLATE RACK AND CANOPY.

These can be set up anywhere, thus saving expense of mason work and cost of the usual **Brick Jambs** (thus saving twenty or forty dollars for jambs.)

	No. 37 Size.	No. 58 Size.	No. 48 Size.
With Lower Hot Closet.....	$39 00	$41 00	$41 00
Cast Plate Racks.....	5 50	5 50	5 50
Wrought Iron Canopy.....	13 50	13 50	13 50
Waterbacks.....	8 00	8 00	8 00

Sizes.	No. 37.	No. 58.	No. 48.
Width of Front,	33 in.	39 in.	33 in.
" bet. Jambs,	30 "	33 "	33 "
Depth of Jambs,	12 "	12 "	12 "
" of whole top,	23 "	26 "	25 "
Height,	28½ "	30½ "	28½ "
Boiler Holes,	7 "	8 "	8 "
Oven,	16x17	18x18½	18x18

RICHARDSON & BOYNTON CO'S
"Devonshire" Double-Oven Range.



This cut shows our **New Wrought Iron Back and Plate Shelf.**

A great convenience for putting Cooking Utensils on when using the Range, also for keeping Meats, Vegetables, etc., warm.

PORTABLE FORM WITH DOCK ASH GRATES.

No. *122*—4 feet wide, eight 9-in. Boiler Holes	*$130 00*
" *123*—4½ " eight 9-in. "	*155 00*
" *124*—5 " eight 9-in. "	*180 00*
Portable Broilers, with Slide Covers, to set over 4 holes over fire, for Meats, Fish, etc.	*13 00*
Top Waterbacks	*13 00*
Back Waterbacks	*16 00*

PRICES OF **WROUGHT IRON BACK** AND **SHELF.**

Nos. *122* and *123*	*$19 00*
No. *124*	*23 00*

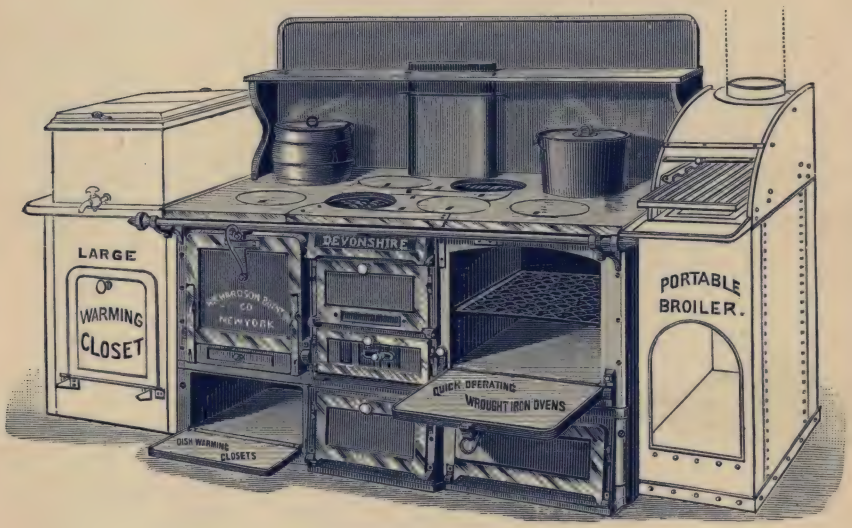
Please specify which style of Waterback is desired when ordering Ranges.

RICHARDSON & BOYNTON CO'S

"DEVONSHIRE" RANGE,

FOR HARD COAL.

UNEQUALED FOR GREAT COOKING FACILITIES, EASE OF MANAGEMENT, AND ECONOMY.



Ranges furnished with or without WROUGHT IRON PLATE SHELF and BACK, as desired. See pages 58 and 59.

PORTABLE HOT WATER TANK AND STAND, - - - - $51 00

See page 60 for prices of various Broilers.

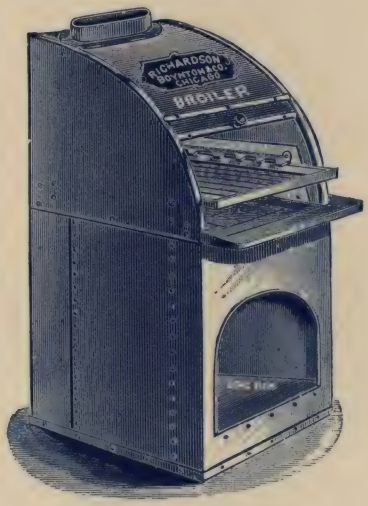
With or without **Broiler** and **Water Boiler,** as desired. Adaptable for all uses, Family, Restaurant or Hotel purposes.

Three Sizes, 4, 4½, 5 feet long. **Double Ranges,** 8, 8½, 9, 9½, 10 ft. long.

RICHARDSON & BOYNTON CO'S

PORTABLE BROILERS.

(FOR HARD COAL OR CHARCOAL.)



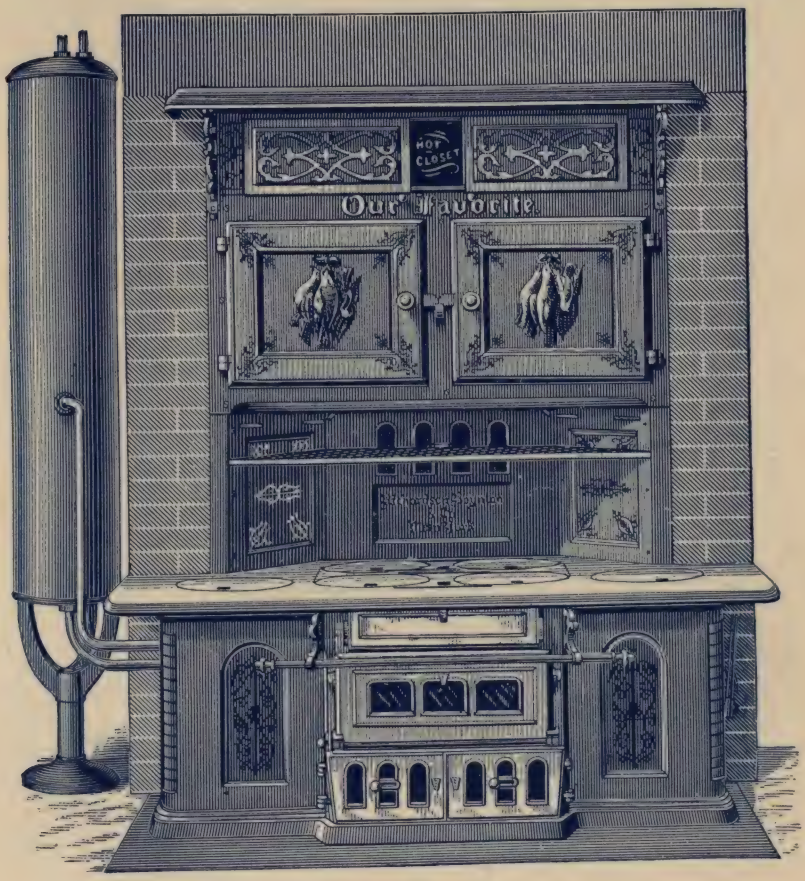
BROILERS.

	For Coke or Coal.
12 inches in width outside	$46 00
15 " " "	54 00
18 " " "	78 00
23 " " "	90 00
28 " " "	101 00
33 " " "	112 00

Our **PORTABLE BROILERS** cost less, consume less Fuel, and are more desirable than the ordinary broilers. The tops are of **Heavy Wrought Iron.** Ample provision has been made for the exit of smoke, etc., leaving meats clean and free from odors. They are fitted with spacious Coal Boxes underneath the Broiler, and have several slide rests for the Broiling Iron, a convenience that cooks will **appreciate.** They are also fitted with a Visor or Sliding Door, adjusted on a novel plan; the weights being on the inside of Broiler, affording easy access to them. The smoke pipe is taken from the top instead of back, requiring less space for the Broiler to stand in.

RICHARDSON & BOYNTON CO'S

"OUR FAVORITE" Elevated Oven Range.



(FOR HARD COAL.)

A Universal Favorite—Considered the Best Range Made.

Are easily set. Always work satisfactorily. Easily managed. Arranged for Quick or Slow Baking in either Oven. Regulated at pleasure. A remarkably successful operating Range. Thousands in daily use.

Has large Ovens, large Cooking Surface, Front Feeder, Nickel Rail, Shaking, Dumping, Clinker-Clearing Grate, Mica Front, Broiling Door, High Ash-Pit, Dust Damper, Ash-Pan, and Odor Ventilators.

No. *12*—(For Jambs 2 ft. 11 in. wide) six 9-in. Boiler Holes with four 9-in. Covers, and two 8-in. Covers and Rings	*$100 00*
No. *14*—(For Jambs 3 ft. 5 in. wide) six 9-in. Covers	*114 00*
Waterbacks	*13 00*

RICHARDSON & BOYNTON CO'S

"PERFECT" PORTABLE RESERVOIR RANGE.

(TRADE MARK.)

WITH HOT CLOSET AND 36-QUART RESERVOIR.

(For Wood or Coal.)

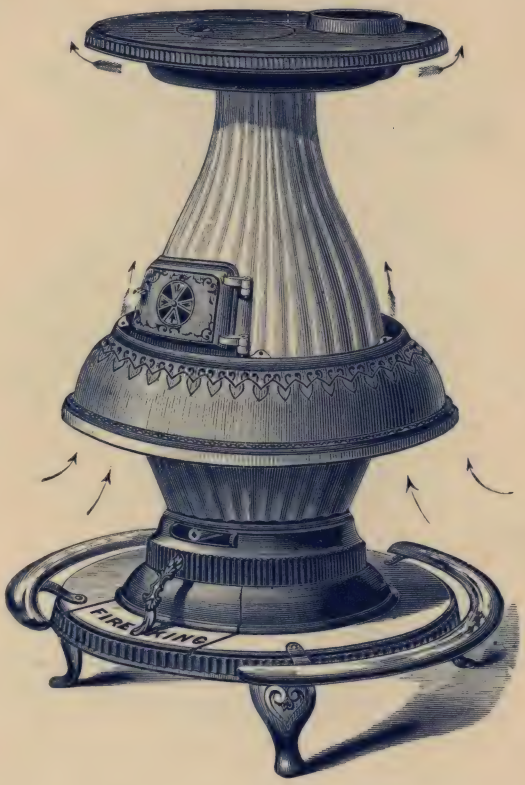
No. 8—six 8-in Holes, complete, less Shelf	$85 00
" 9—six 9-in " " "	87 00
" 8—With Upper Shelf	90 00
" 9— " " "	93 00
Waterbacks	11 00

If Reservoir is not wanted, these ranges can be adapted with 8 Boiler Holes on top. This **Range** has **great Cooking Capacity** and gives a constant supply of **hot water.** Range is fitted with "Perfect" Revolving Grates.

RICHARDSON & BOYNTON CO'S

"FIRE KING" HEATING STOVE.

FOR STORES, DEPOTS, WAREROOMS AND HALLS.



WARRANTED TO HEAT MORE ROOM WITH A GIVEN AMOUNT OF COAL THAN ANY STOVE IN THE MARKET.

Thousands of these Stoves in use, heating where other Stoves fail.

SIZES.

No. 22	$42 75
" 24	47 75
" 26	54 50
" 28	67 50
Nickel Base Rails, per set	4 00

RICHARDSON & BOYNTON CO'S

CHINESE

LAUNDRY STOVE.

2 SIZES.

FOR COAL OR COKE.

PRICES.

No. 2— 7 Irons—8 inch Boiler Holes.....	*$18 00*
" 3—10 " 9 " "	*21 00*

RICHARDSON & BOYNTON CO'S

LAUNDRY RANGE.

ONE SIZE.

FOR COAL OR COKE.

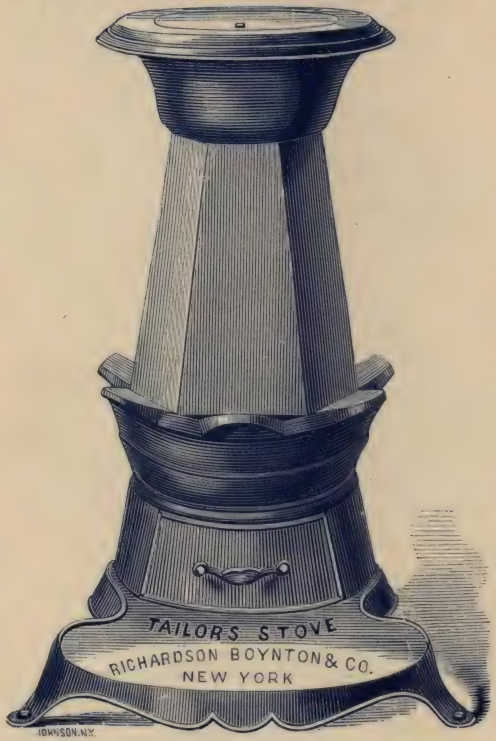
This Laundry Range has a **Waterback** made especially for usual connections. The Ironing Pan is **18 inches square,** and will hold from 8 to 10 Irons, or a large Clothes Boiler. **It has a loose Top,** with four 8-inch Boiler Holes, making it a convenient auxiliary if required for cooking.

PRICE.

Range	$30 00
Waterback	11 00

RICHARDSON & BOYNTON CO'S

NEW TAILORS' STOVE.



ONE SIZE.

Will heat 18 Irons, do more work, use less fuel than any stove ever made.

SPECIALLY MADE FOR

CLOTHING MANUFACTURERS AND TAILORS' USE.

No. *18*—For 18 Tailors' Geese	*$42 00*
" *3*— " 10 " "	*28 00*
" *2*— " 7 " "	*15 00*

— ALSO —

LARGE HOTEL LAUNDRY STOVE.

No. *33*—For 32 Irons	*$46 00*
" *41*— " 40 "	*61 00*
Waterbacks—for 50 gallon Boilers	*16 00*

THE "CHINEE" LAUNDRY STOVE.

With **Front Feeder, Large Boiler Top,** with two 8-inch Covers and Holes, Shaking Grate, etc.

No *2* 7 Irons	*$18 00*
" *3* 10 "	*21 00*

POPULAR "LAUNDRY" STOVE.

FOR FAMILY USE PARTICULARLY.

No. *2* For 7 Irons	*$15 50*
" *3* " 10 "	*21 00*

They have large Boiler Holes on top.

THE LAUNDRESS STOVE.

With Sunk Top for Large Boiler	*$15 50*

For Seven Irons.

THE LAUNDRY RANGE.

With four 8-inch Boiler Holes and Sunk Iron Pan	*$30 00*
Waterbacks for same	*11 00*

THE HOTEL LAUNDRY STOVES.

(FOR COAL.) FOR HOTEL USES.

No. *33* For 32 Irons	*$46 00*
" *41* " 40 "	*61 00*
Waterbacks—50 Gal	*16 00*

THE "TAILOR'S" STOVE.

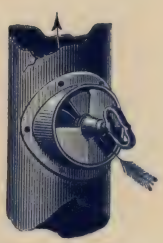
FOR TAILOR'S GOOSE.

No. *2* For 7 Irons	*$15 00*
" *3* " 10 "	*28 00*
" *18* " 18 "	*42 00*

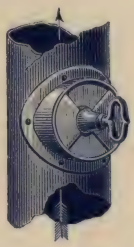
RICHARDSON & BOYNTON CO'S

PATENT SMOKE PIPE DAMPERS,

FOR FURNACE SMOKE PIPES.



PARTLY CLOSED.



OPEN.

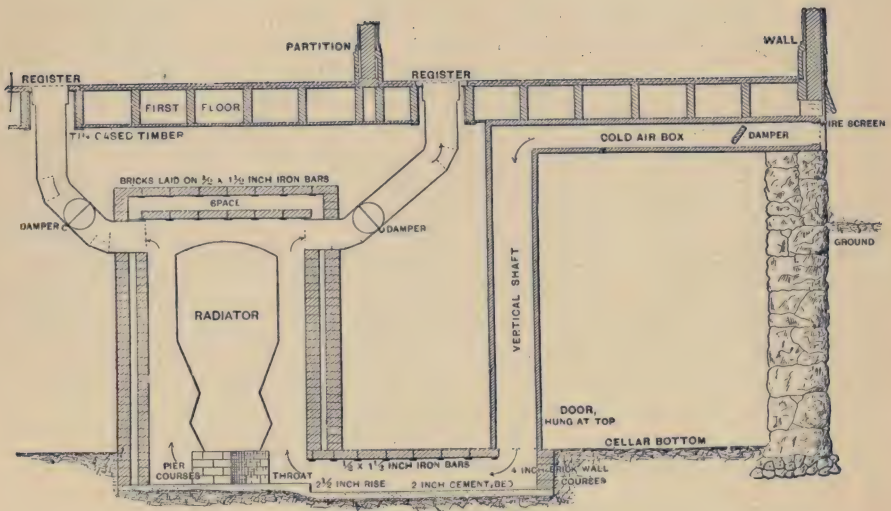
Years of Experience has shown these to be the best Smoke Pipe Regulators ever used.

This highly useful invention is a complete check damper or governor, and by its proper use a fire may be regulated, and held to most any degree of burning, from the **Slowest Charring** to that of **Rapid Combustion.** Fully one-third of the fuel, and consequently a large percentage of heat can be saved and utilized, now lost by not being able to hold the fire under **perfect control.** We give above cuts showing its application. It is neat in appearance, easily adjusted, and warranted to operate in every respect as recommended.

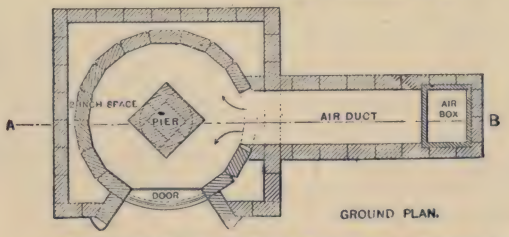
We have **seven** sizes of them, adapted for Furnaces, Stoves, Ranges, etc.; in fact, upon the smoke pipes of all kinds of apparatus where a **perfect** draft Regulator is required.

SIZES:

4½ inch.	5 inch.	5½ inch.	6 inch	7 inch.	8 inch.	9 inch.
60 cts.	*70 cts.*	*80 cts.*	*90 cts.*	*$1.00.*	*$1.10.*	*$1.25.*

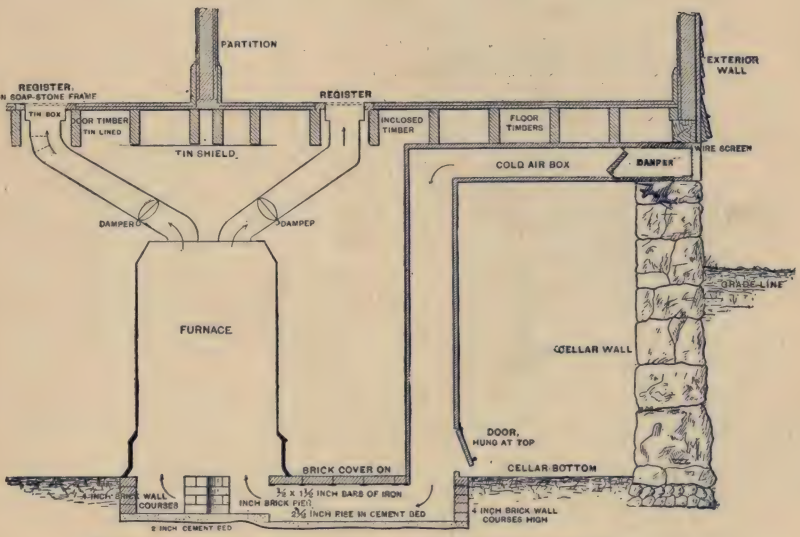


SECTION THROUGH A, B.

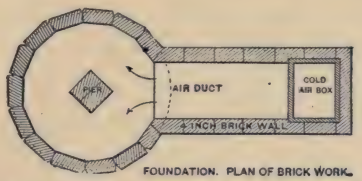


GROUND PLAN.

SECTIONAL VIEW OF SETTING A BRICK-SET FURNACE.



SECTION SHOWING PASSAGE OF AIR FROM EXTERIOR THROUGH FURNACE.



FOUNDATION. PLAN OF BRICK WORK.

SECTIONAL VIEW OF SETTING A PORTABLE FURNACE.

Showing cold air box connection with cases of furnace above the base. The first joint of the air box should be of sheet iron—balance of air box of wood—air to be taken from the outside of building. With *brick-set* furnaces this connection is made through the side of brick wall.

Showing air introduced in an excavation made under the furnace base—air box to be connected with the trench outside the furnace—and carried to outside of building as usual. Where air box is desired under the floor or cellar this is the best manner of setting.

Showing air supplied from room in which furnace is set. Cast-iron air panels to be bolted on cases when desired.

When air box is not put up by reason of the expense, this plan must be adopted.

Furnaces must have sufficient air supply to heat well.

EITHER OF THESE PLANS MAY BE ADOPTED ACCORDING TO CIRCUMSTANCES.

ALL FURNACES SHOULD BE SET HAVING A COLD AIR SUPPLY FROM OUTSIDE OF BUILDING IF A SUPPLY OF PURE WARM AIR IS TO BE OBTAINED.

IMPORTANT.

THE COAL QUESTION.

For heating purposes, WHITE ASH LEHIGH COAL, STOVE SIZE, or STOVE AND EGG SIZE, MIXED, is best to use in all cases, according to size of furnace.

Lehigh WHITE ASH hard coal gives more power, BURNS well, and LASTS LONGER than red ash coal (which yields a larger quantity of gas and is very quickly consumed)—one using RED ASH coal in furnaces, will burn MORE WEIGHT of fuel, yet produce LESS heat CONTINUOUSLY than if WHITE ASH COAL is used. For heating purposes, if POSSIBLE, only use WHITE ASH HARD COAL, if best results are desired.

FOR SMALL FURNACES USE GOOD WHITE ASH STOVE COAL.

FOR MEDIUM SIZE FURNACES USE GOOD WHITE ASH STOVE AND EGG COAL, MIXED.

FOR LARGE SIZE FURNACES USE GOOD WHITE ASH EGG COAL.

For MODERATE seasons, even in large furnaces, STOVE and EGG SIZE, MIXED, will enable one to regulate the fire BETTER, and CONTROL it as desired.

DO NOT USE FURNACE COAL under any circumstances. It is TOO LARGE for furnace use, and not adapted for HOUSE HEATING. FURNACE COAL is only fit for BLAST FURNACES, where strong pressure blast is required to burn it.

NOTE.

In a majority of cases where people complain of amount of fuel consumed (IN ANY FURNACE) it will GENERALLY be found that RED ASH COAL is USED, or occasionally large FURNACE coal is purchased which will not burn well except over a VERY STRONG CONSTANT DRAFT.

Dealers giving above advice will enable their customers to have best results in heating.

INFORMATION FOR OUR CUSTOMERS

RELATING TO AND

ABOUT THE HEATING CAPACITY OF FURNACES AND AIR SUPPLY FOR SAME.

These figures are CONSERVATIVE and NOT intended to be adhered to positively, as LOCATION, ARRANGEMENT, and SIZES of BUILDINGS required to be heated, must be taken in consideration in all cases according to the best experience and judgment of parties doing the work.

Furnaces with		Will heat about rooms say 15 x 15 each.	Air boxes from West, Northwest, or North. to be about
24 inch Cases	Use Lehigh Stove Coal	2 to	9 x 10
28 "		2 to 3	" 9 x 12
32 "		2 to 4	" 10 x 15
36 "		4 to 5	" 12 x 20
38 "	Use Lehigh Stove, Egg Mixed	5 to 6	" 12 x 22
40 "		6 to 8	" 12 x 24
41 "		7 to 8	" 12 x 28
44 "		8 to 9	" 14 x 25
48 "		9 to 10	" 14 x 28
50 "	Use Lehigh Egg Coal	10 to 11	" 14 x 30
54 "		12 to 13	" 14 x 35
60 "		14 to 16	" 16 x 40
66 "		14 to 18	" 16 x 45

All COLD AIR BOXES should, if possible, enter under the furnace by having an air pit under and across furnace base, with mouth of same extending out one side for mouth of air box to connect with. All air boxes should have an air slide to REGULATE air supply ACCORDING to WIND and WEATHER and STATE of fire. Box should also have an inside opening or Door, to be used during very cold weather, or at night when fire is necessarily low, in which case the slide should be closed always.

Air boxes should not be too direct to furnace, so air currents can be better controlled.

Unless air supply is to be taken from cellar or room it stands in (or in case it is impossible to do otherwise), all furnaces should have an AIR PIT under FURNACE as ABOVE.

WARM AIR CAPACITY ONLY

OF A FEW OF THE

Common Sizes of Pipes and Registers.

Especially compiled for the use of Furnace Dealers, to aid them in properly piping rooms to be heated.

ROUND PIPES.

Diameter of Pipe	Area in sq. inches	Diameter of Pipe	Area in sq. inches	Diameter of Pipe	Area in sq. inches
7 in.	38	12 in.	113	22 in.	380
8 "	50	14 "	154	24 "	452
9 "	63	16 "	201	26 "	531
10 "	78	18 "	254	28 "	616
11 "	95	20 "	314	30 "	707

REGISTERS.

Size of Opening.	Capacity in sq. inches	Size of Opening	Capacity in sq. inches	Size of Opening	Capacity in sq. inches
6x10	40	10x14	93	20x20	267
8x10	53	10x16	107	20x24	320
8x12	74	12x15	120	20x26	347
8x15	80	12x19	152	21x29	406
9x12	72	14x22	205	27x27	486
9x14	84	15x25	250	27x38	684
10x12	80	16x24	256	30x30	600

ROUND REGISTERS.

Size of Opening	Capacity in sq. inches	Size of Opening	Capacity in sq. inches	Size of Opening	Capacity in sq. inches
7 in.	26	12 in.	75	20 in.	209
8 "	33	14 "	103	24 "	301
9 "	42	16 "	134	30 "	471
10 "	52	18 "	169	36 "	679

OVAL HOT AIR PIPE.

4 x 7 per foot	
4 x 9 "	
4 x 11 "	
4 x 12 "	
4 x 16 "	
4 x 18 "	
4 x 20 "	
4 x 24 "	
Reg. Collars, each	
" Heads, "	
" Boxes, "	

REGISTER BOXES AND CASINGS.

	Boxes, each.	Casings, each.
8 x 10		
8 x 12		
9 x 12		
9 x 14		
10 x 14		
10½ x		
16½ x		
12 x 15		
12 x 19		
14 x 20		
14 x 22		
15 x 25		
16 x 20		
16 x 24		
20 x 26		

Ic FLUE REGISTER PIPE AND ELBOWS.

PIPE.	ELBOWS. Each.
6 inch, per foot	6 inch
7 " "	7 "
8 " "	8 "
9 " "	9 "

1x CELLAR PIPE AND ELBOWS.

PIPE.	ELBOWS. Each.
7 inch, per foot	7 inch
8 " " "	8 "
8½ " " "	8½ "
9 " " "	9 "
10½ " " "	10½ "
12½ " " "	12½ "
14 " " "	14 "
16 " " "	16 "
18 " " "	18 "
20 " " "	20 "
24 " " "	24 "

ESTABLISHED 1837. | 1890 | INCORPORATED 1882.

RICHARDSON & BOYNTON CO.,

MANUFACTURERS OF

FURNACES, RANGES,

HEATERS, HEATING STOVES,

232 & 234 WATER STREET, NEW YORK.

A Superior Line of Goods Suitable for any part of the Country.